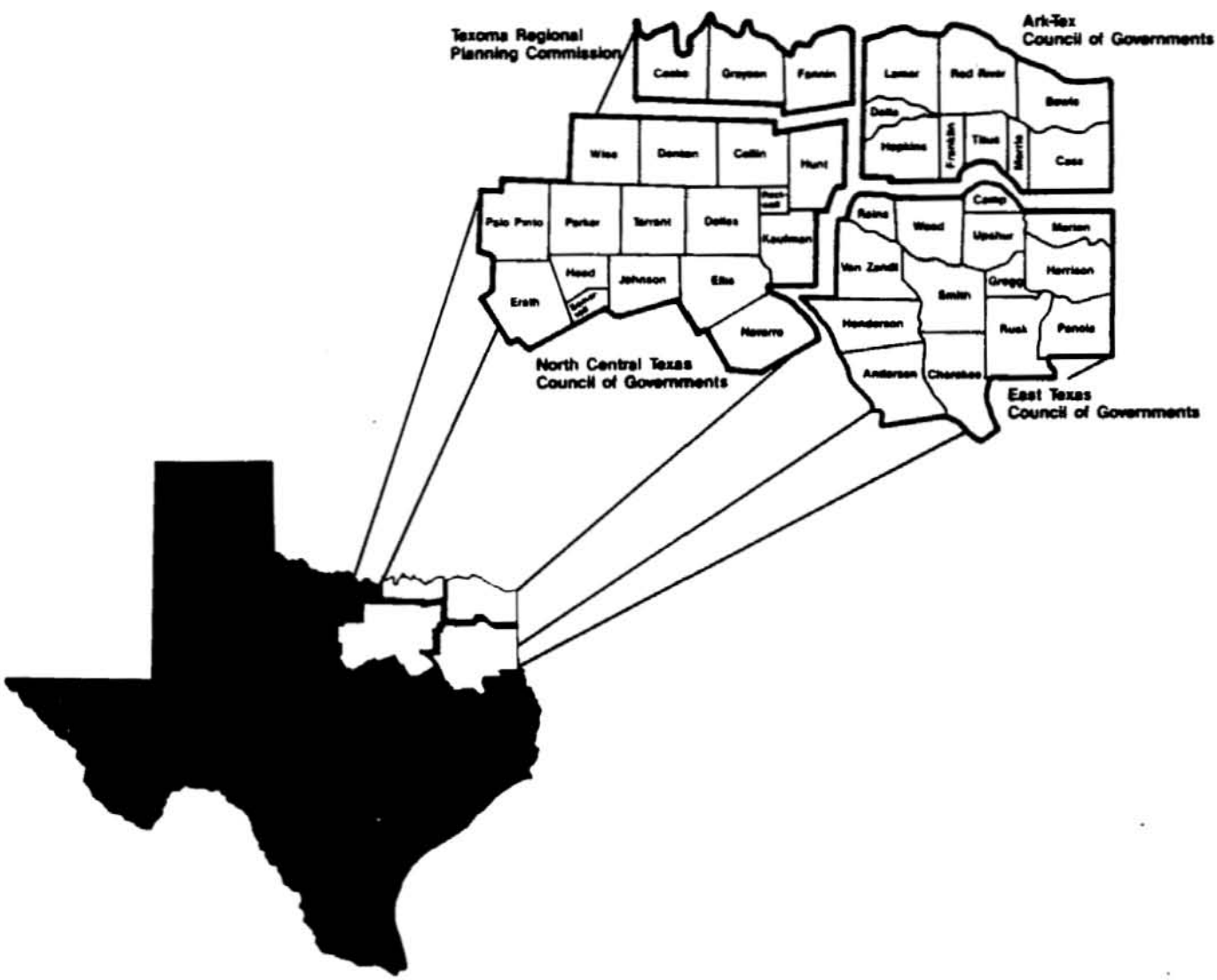
PUBLIC SAFETY RADIO COMMUNICATIONS PLAN

For Region 40

North Central and North East Texas



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Prepared by the North Central Texas Council of Governments December, 1990

ACKNOWLEDGMENT

The **Public Safety Radio Communications Plan for Region 40** provides operations and system design requirements in response to Federal Communications Commission Report and Order 87-112. This Plan establishes the structure by which eligible agencies may request frequencies from the 821-824/866-869 MHz band. Written by the Regional Communications Planning Committee -Region 40, it represents almost 15 months of intensive effort by more than 50 of the most experienced public safety communications personnel in North Central and North East Texas. The efforts of many of the area's communications personnel three years before helped set the stage for this latest planning effort.

Several Committee members working on this Plan previously served on the National Public Safety Planning Advisory Committee (NPSPAC) to the FCC. Meetings in Washington D.C. and other locations in 1987, provided them the advantage of lengthy background discussions and gaining knowledge of how other jurisdictions approached the planning process. In addition, the Committee benefitted from early drafts of the other regions' plans under development at the same time. It is this spirit of cooperative sharing that other regions are cordially invited to appropriate any part of this document they may find useful.

Great appreciation is due members of the Regional Communications Planning Committee — Region 40 for their many hours of work on the Plan. I believe that the public safety community as a whole will appreciate their efforts for many years to come. I would also like to thank the staffs of the four regional planning councils making up Region 40: the North Central Texas Council of Governments, the Texoma Regional Planning Commission, the Ark—Tex Council of Governments, and the East Texas Council of Governments. They have provided a great deal of administrative and moral support throughout the entire planning process. Without their backing we could not have progressed nearly so well.

Charles O. Bowles, Chairman
Regional Communications Planning
Committee — Region 40
October 5, 1988

Program Scope

PROGRAM SCOPE

INTRODUCTION

In December 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met. By Notice of Inquiry, over 300 comments were evaluated by the FCC staff. This resulted in the recognition of public safety agency needs and the subsequent allocation of an additional 6 megahertz of spectrum for public safety use nationwide, The FCC also recognized the necessity of developing a National Plan to promote interoperability among public safety providers and to insure an efficient use of the newly allocated spectrum.

Recognizing the importance of public safety participation in the development of the National Plan, the FCC established the National Public Safety Planning Advisory Committee (NPSPAC). With open membership, NPSPAC provided the opportunity for the public safety community and other interested members of the public to participate in an overall spectrum management approach by recommending policy guidelines, technical standards, and procedures to satisfy public safety needs for the foreseeable future.

After consideration of NPSPAC's Final Report and comments filed in Docket No. 87-112, a Report and Order was released by the FCC in December 1987 which established a structure for the National Plan that consists of guidelines for the development of regional

plans.

The National Plan reflects the FCC's regulatory objective of maximizing spectrum efficiency and ensuring sufficient flexibility to accommodate specific communications requirements in different areas of the United States. The National Plan will serve as an umbrella under which regional plans can be developed and implemented.

The National Plan provides guidelines for the development of regional plans, with as much regional autonomy as possible, to ensure that the needs of all eligibles are considered in the planning process.

PURPOSE

Public safety spectrum users within the boundaries of Region 40 recognize that spectrum is a highly valued and limited resource which necessitates an orderly and efficient development of its use. Within Region 40, there are numerous governmental entities (both metropolitan and rural) which require new and/or additional communications capabilities in order to maintain a satisfactory level of public safety services for their citizens.

This Regional Plan was developed with the objective to assign frequencies in an equitable fashion to those public safety and special emergency radio service eligibles with the highest demonstrated need and that the frequencies would be assigned and used in the most efficient manner possible.

The purpose of this regional plan is to define, under the umbrella of the National Plan, specific users and their spectrum requirements, regional interoperability requirements, technical and frequency reuse requirements, and other requirements that may be applicable to Region 40 and adjacent regions. This plan provides flexibility to accommodate a wide variety of specific communications requirements which are needed for this region's public safety and special emergency service providers.

REGIONAL PROFILE

Geography

The 42 county area included in this Plan is shown by the map, "Public Safety Communications Planning Region - Region 40," on the following page. Region 40 typifies geographical diversity from its rich farmland in the northeast to fairly hilly semi-mountainous terrain in the West. Much of the Region's area is extensive from the standpoint of public safety officer coverage. There are times when only a few officers may be responsible for covering an area greater than 900 square miles. Appendix 1, "Region 40 - Square Miles By County," gives the square mile area for each county in the region. The total number of square miles in Region 40 is 31,193.

Population - Current and Projected

The 42 county region experienced significant growth during the late 1970's and early 1980's, but the oil price collapse of 1986 cast a shadow of economic uncertainty over the area. However, as noted in Appendix 2, "Prolected Population and Employment - Dallas/Fort Worth CMSA," and Appendix 3, "Population Totals and Projections By County Within Regional Council," the Region will continue to exhibit growth through the year 2000. Thirty-two (32) of 42 counties are projected to experience double digit percentage increases in population. The implications of this growth are that Region 40 will experience added service requirements requiring improved radio communications capabilities.

Housing and Labor Market Trends (North Central Texas)

The average household size declined from 3.1 in 1970 to 2.57 in 1986, and accompanying the smaller households has been a shift towards multifamily housing. In 1970, 77 percent of all households resided in a single family dwellings. By 1986, that proportion dropped to 65 percent, and is predicted to drop to 62 percent by 2010. This continues to be a relatively high percent of multifamily dwellers and the accompanying high densities of population will impact future police, fire, and emergency medical planning and services.

As a result of rapidly increasing labor force participation among women, population growth will not occur as rapidly as job growth. One implication of the two-earner

household is the increased potential for unstable family structures and resultant social consequences. For example, many children will be unsupervised and possibly more prone to commit criminal and mischievous acts. Also, more property is left unprotected because both adults may be away from home.

Emergency Medical Services (North Central and Texoma Reglons)

Appendix 4, “Emergency Medical Services Information,” depicts Emergency Medical Services manpower and selected capabilities. It is anticipated that the number of EMS personnel will increase approximately seven percent during the period 1986-1990. Given this increase the number of EMS services personnel will be 8353. This increase in personnel will result in a corresponding increase in the need for vehicles, supplies, and communications equipment to handle increased communications traffic.

Law Enforcement Capabilities

Appendix 5, “Number of Law Enforcement officers in North Central and Texoma Regions,” reflects the number ot sworn, non sworn, reserve, and)ail officers in selected jurisdictions as of 1986.

The number of law enforcement officers is expected to increase approximately ten percent a year during the period 1987 through 1989, resulting in a sworn manpower complement exceeding 8000 by the beginning of the next decade. The need for additional radio equipment and communications capabilities in the region is obvious and

existing systems are often less than adequate to assure reliable, prompt, and accurate communications. Local agencies are willing to examine technological advances in an attempt to remedy existing problems, but there will still be a need for additional frequencies if citizens are to be effectively served and officers protected.

Index Crime (North Central Texas)

Not unlike other parts of the country, communities in North Central Texas continue to experience an increase in criminal activity and a resulting increase in calls for services. As shown in Appendix 6, “North Central Texas Index Crimes Compared,” the number of Index Crimes reported in the 16 county region has increased from 254,373 in 1983 to 386,681 in 1986 - an increase of 52 percent. The rate per I 00,000 population has increased 41 percent, from 7,382 in 1983 to 10,410 in 1986. The number of arrests for Index offenses has increased from 40,342 in 1983 to 52,062 in 1986, or a 29 percent increase. This compares to statewide increases of 33 percent for Index Crimes reported, 22 percent for the rate per 100,000 population, and 18 percent for arrests during the same period.

Fire Service Capabilities (North Central and Texoma Regions)

Fire service in the North Central and Texoma regions is characterized by a mix of full-time professional officers with a large number of professional volunteer personnel. Appendix 7, “Fire Service Personnel by Jurisdiction,” reflects the number of officers and civilian personnel available to respond to emergency calls for fire service. Not unlike the

law enforcement community, many of the fire departments cannot expand their communications capabilities to meet increasing demands for service. The opportunity to receive additional frequencies will help identify existing impacted frequencies and result in a more effective fire service operation.

PLANNING COMMITTEE FORMATION

The development of the Public Safety Radio Communications Plan for Region 40 has followed the requirements of the FCC's Report and Order as issued in the matter of General Docket 87-112.

Representatives of the Dallas/Fort Worth Metroplex Ad Hoc Committee and the North Central Texas Council of Governments (NCTCOG) Public Safety Communications Advisory Committee served on the National Public Safety Planning Advisory Committee (NPSPAC) from its inception.

NCTCOG's Public Safety Communications Advisory Committee worked along with NPSPAC and began the cooperative regional planning process for the major population center of Region 40.

In accordance with the FCC's Report and Order 87-112, the Associated Public Safety Communications Officers, Inc. (APCO) recommended to the Commission the appointment of a "Convener" for Texas Region 40.

Acting on a Petition for Limited Reconsideration, the Commission subsequently defined the limits of Region 40 as a 42 county area located in north central and northeast Texas (please see map on page 5). Planning responsibilities of NCTCOG's Public Safety Communications Advisory Committee were expanded to include the additional 26 counties of three adjacent regional councils (COGs). On April 12, 1988, the Region 40 convener issued a Public Notice that an initial Region 40 public safety communications planning meeting would be held June 14,1988, at the Administration Building at the Dallas/Fort Worth International Airport (please see Appendix 8). This initial regional planning meeting officially established the Region 40 planning committee. All official actions of the Committee, as reflected in the meeting minutes, are attached as Appendix 9.

Authority

AUTHORITY

REGIONAL PLANNING COMMITTEE

Authority for the Regional Planning Committee to carry out its assigned tasks is derived from the Federal Communications Commission, Report and Order, Docket 87-112. Participants in the formation of the Regional Planning Committee represent interested parties from both the Public Safety and Special Emergency Radio Services. More than fifty (50) persons have directly participated in the plan development process. Appendix 10 contains the names, organizational affiliations, and mailing addresses of those who have been instrumental in the Regional Planning Committee's formation.

PLAN REVIEW

After compiling all written inputs to the Regional Plan, the Regional Planning Committee reviewed the completed draft in detail. Using the page by page review and explanation procedure by which NPSPAC approved its final report, the Regional Planning Committee approved the draft Plan. The draft was then submitted to the appointed conveners and/or planning committee chairmen of the seven adjacent regions for their review.

CONFLICTS

It is not the intent of this plan to conflict with any current or future rule or regulation of the National Plan as may be applicable by Report and Order of the Federal Communications Commission. In such cases where conflicts may exist, Federal Communications Commission rules and regulations shall prevail. Elements of this Plan not expressly prohibited by the FCC become applicable to this region upon the Plan's approval by the Commission. Should future determinations by the Commission void any individual element of this plan, all other elements will remain applicable.

This Plan is not intended to interfere with the work of organizations appointed by the Commission to provide frequency coordination recommendations to the Commission for eligibles covered by the Plan. Instead, it provides a structure by which spectrum conservation and efficiency can be maintained. Conflicts arising from differences between radio service coordinators and/or this Regional Plan shall be resolved by the Commission.

REGIONAL REVIEW COMMITTEE

Upon approval of this Plan by the Commission, a Regional Review Committee will be established for the review of new applications, for conducting an annual system implementation review, for making action recommendations to the Commission, for the resolution of inter-regional problems, for recommending modifications and amendments to the Plan, and for exercising general oversight of the Plan.

To ensure organizational integrity, the Regional Review Committee shall be attached to arid serve under the sponsorship of the four Regional Councils comprising Region 40. At a minimum, each Regional Council will be represented by two (2) members or by fifteen percent (15%) of the Committee's total membership - whichever is greater. Most Committee members will be employees of an official entity responsible, under Texas Statutes, for the preservation of life and property as a matter of public safety.

The Regional Planning Committee Chairman shall serve as chairman of this Committee. At the direction of the Regional Review Committee, the chairman shall forward Regional Plan modifications and amendments to the Commission for its action. The APCO frequency advisor responsible for Region 40 will serve as an ex-officio, nonvoting member of the Committee.

The Regional Review Committee shall establish rules and operating procedures as ft deems necessary.

Operational Requirements

OPERATIONAL REQUIREMENTS

REGIONAL INTEROPERABILTY (Common Channels)

In accordance with the national band plan for 806-809/851-854 MHz, interoperability among federal, state, and local governments during both routine and disaster operations will take place primarily on the five common channels as identified in the National Plan. Additionally, through the use of S-160 or equivalent agreements, a licensee may permit federal use of a non-federal communications system. Such use, other than the five common channels, is to be in full compliance with the Commission's requirements for government use of non-government frequencies (Title 47 CFR, Sec. 2.103). Licensees are allowed to count as additional loading, a factor of two percent for federal interoperability agreements. No channels other than the five national common channels are needed to meet this region's interoperability requirement.

The implementation of the common channels designated by the National Plan will be separated into two categories of users: primary and secondary.

Primary Users: (five or more channels)

As a minimum, all primary users shall operate a receiver for continuous monitoring of the national calling channel and a separate mobile relay base station equipped to operate on all five national common channels. All primary users shall maintain a radio watch on the calling channel for the purpose of monitoring the channel and rendering assistance**. All**

common channel equipment shall be equipped to provide an on-street mobile coverage capability of the same slze and quality for which the station license was granted. All licensees are encouraged to operate additional base stations on any or all of the four remaining common channels.

Secondary Users: (four or less channels)

All secondary users shall, as a minimum, operate a base station for continuous monitoring of the national calling channel. All secondary users shall maintain a radio watch for the purpose of monitoring and rendering assistance on the calling channel. A secondary user whose area is encompassed by a primary user may apply for a waiver from the Regional Review Committee for full time monitoring of the national calling channel. The secondary user will be required to have a station on the national calling channel.

CHANNEL USE

Plain language will be used on all five common channels at all times, and the use of unfamiliar terms, phrases or codes will be kept to a minimum, unless deemed necessary for security purposes.

The use of these channels for Intra-system normal dispatch and routine agency operations is strictly prohibited.

Normally, the five common channels are to be used only for activities requiring communications between agencies not sharing any other compatible communication system. Under emergency situations, one or more tactical channels may be assigned by the controlling agency at the time of the incident.

Users of these channels include federal, state, and local disaster management agencies; police, fire, and providers of basic and advanced life support services. Other eligibles, such as school buses, volunteer emergency corps, Red Cross, Radio Amateur Civil Emergency Services (RACES), Amateur Radio Emergency Services (ARES), Salvation Army, etc. are eligible for use of these interoperability channels in support of the preservation of life and property during emergencies. Those eligibles may be called upon by a controlling agency for support when such eligibles are a part of a controlling agency's documented emergency plan.

The use of automatic or operator-assisted connection of these common channels to the switched telephone network is prohibited.

CALLING CHANNELS

The calling channel shall be used to contact other users in the region for the purpose of requesting incident related information and assistance. This channel shall not be used as an ongoing working channel. Once contact is made, an agreed upon tactical channel is recommended for continued communications.

TACTICAL CHANNELS (8TAC91 - 8TAC94)

These channels are reserved for use by those agencies in need of conducting interagency communications. Incidents requiring multi-agency participation will be coordinated over these channels by the agency controlling the incident. Individual tactical channels may be designated for use by various services or disciplines on an incident basis by the controlling agency. In the event of multiple incidents requiring the use of these channels, channels shall be designated by mutual agreement between controlling agencies. In no case shall control of these channels remain with any single agency beyond the termination of a declared emergency.

STATION REQUIREMENTS

All mobile and portable radios operating in the 806-809/851-854 MHz band shall be equipped to operate on the five common channels using CTCSS tone squelch of 156.7 Hz.

All mobile relay base stations operating on these common channels shall be equipped to operate using CTCSS tone squelch of 156.7 Hz. They shall be equipped to operate as a mobile relay station on demand, but shall normally operate in the repeat disable mode.

Application Procedures

APPLICATION PROCEDURES

Any request for frequencies to be used for public safety or special emergency operations (as described in part 90 of the FCC rules and regulations) must be submitted to the Regional Review Committee for approval.

If adequate spectrum is available, the Regional Review Committee shall review the application to determine its compliance with the regional plan as indicated below. If there is inadequate spectrum or the Committee anticipates a shortage, the established evaluation procedure shall be instituted. This procedure, "Evaluation Criteria," is outlined in Appendix 11.

If approved by the Regional Review Committee, the request for frequencies will be returned to the applicant to be forwarded to the Associated Public Safety Communications Officers, Inc. (APCO) for frequency coordination. If not approved by the Regional Review Committee, the request will be returned to the applicant for revision and correction before being resubmitted to the Committee for further consideration.

The request shall contain information to justify the frequencies requested and shall demonstrate compliance with the regional plan. As a minimum, this request shall consist of the following:

1. Appropriate Coordination and Licensing Application Forms
2. System Design Information
3. Funding Statement
4. Proposed Implementation Schedule

5. Existing Frequency Statement

Evaluation Procedures

EVALUATION PROCEDURES

The Regional Review Committee will review and evaluate each request based on the sufficiency of the information contained in the five sections listed earlier. The information required in each section includes the following:

System Design

A brief statement of the intended use of requested frequencies and how they will be integrated into existing emergency and non-emergency operations will be required. The efficiency of 800 MHz frequencies depends greatly upon the design and programming of the system itself. To assist all public safety users in making all systems operate in an efficient manner is the reason this area is being included for review. Specific criteria regarding system parameters are defined in the section, “System Technical Design Requirements.”

Funding Statement

The applicant’s commitment to implement the system must be ensured to maintain the efficient utilization of these 800 MHz frequencies. The funding statement, which will be a resolution from the applicant’s governing body, will include the method by which the system will be funded; for example, by Certificates of Obligation or local bond funds.

Implementation Schedule

All applications for spectrum will be considered “slow growth” as in Part 90:62e of the FCC Rules and Regulations. The applicant will be requested to furnish a schedule detailing the time period required to implement the proposed communication system, from funding through turn-on and final acceptance.

Existing Frequency Statement

It is anticipated that, in all but the most unusual cases, frequencies presently utilized by a licensee will be released for reassignment to other agencies within the FCC designated radio services, e.g., fire, local government, forestry, etc. The applicant is required to furnish the Regional Review Committee a list of frequencies to be released as “give-backs.”

The FCC authorized frequency coordinators will be notified of any recommended reassignment of give-back frequencies. The applicant evaluation criteria established in this Regional Plan are to be considered for recommendation purposes. In such cases where specific channels are required by numerous applicants, the user prioritization by service and function, as outlined in this Plan, will be utilized for making the recommendation. In all cases, area of coverage criteria and channel loading criteria as covered in this Regional Plan will be applied. All give-back frequencies are to be considered for reassignment by the Regional Review Committee. An agency will not be

able to “farm down” frequencies to other services within its political structure unless it is justified to the Regional Review Committee. Agencies failing to give back channels, as agreed, will be subject to forfeiture of their 806-809/851-854 MHz channels. For example, if an agency applies for a five channel trunked system to replace existing UHF channels, the agency’s expressed intent is to give back its UHF channels after a reasonable implementation and testing time of its trunked system. Should the agency decide not to give back its UHF channels, and not be able to justify the decision to the Regional Review Committee, the Committee may recommend to the FCC that all or part of the requested new frequencies be withdrawn.

Technical Design

Requirements

TECHNICAL DESIGN REQUIREMENTS

COVERAGE LIMITATION - Antenna Height and Power

System coverage or service area is limited to geographical boundaries in order to maintain maximum frequency reuse within the region. Agencies requesting new or additional channels will have their proposed system design evaluated by the Regional Review Committee. Any agency requesting a transmitter location not centrally located within its jurisdiction must include in the request adequate justification for such placement. If a non-centrally located transmitter may result in significant encroachment on surrounding jurisdictions, a directional antenna must be chosen which will minimize this encroachment.

Agencies with service areas outside their political boundaries may request extended system coverage. Such requests for extended coverage must be accompanied by written justification.

Extended coverage systems will not be authorized unless approved by the Regional Review Committee. Favorable consideration will be given to those extended coverage systems which are made available for use by eligibles other than the licensee.

DEFINITION OF SERVICE AREA

"System Coverage" or "Service Area" is defined as the boundary where received signal strength falls to 41 d8u.

Forty-one (41) dBu was selected by combining factors, such as receiver sensitivity for 20 dB quieting, foliage attenuation, Rayleigh fading (98 percent probability), and portable body loss.

CALCULATION OF SERVICE AREA

Three factors must be known to determine service area; (1) the strength of the received signal, i.e., "received signal strength," (2) antenna height above average terrain (HAAT), and (3) the effective radiated power (ERP). Received signal strength has been defined, leaving two factors that can be modified to achieve the desired coverage. Tabulated data from Carey propagation curves in Appendix 12 will be used to give the distances to the 41 dBu boundary based on HAAT and ERP. This distance is considered the radius of coverage from the transmitting site. A step-by-step procedure is provided in Appendix 13.

It will be permissible for agencies requesting system authorization to determine the distance to the 41 dBu boundary on a radial-by-radial basis, with a minimum of eight equally spaced radials at 45 degree intervals, beginning at true north, and plot the service area boundary based on these points. This plot may be submitted with the request for frequencies to show that service areas outside the agencies' political jurisdictions are being kept to a minimum. In any case, a minimum antenna height of 100 feet above ground elevation will be necessary to provide clearance with roof lines

and treetops. Any agency with its transmitter centrally located will be allowed a minimum service area radius of eight (8) miles - regardless of the size of its jurisdiction - as long as interference protection for existing co-channel and adjacent channel systems is sufficient.

RESPONSIBILITY FOR CALCULATIONS

It will be the responsibility of the requesting agency to calculate the proposed service area and to validate the accuracy of the calculation. However, the Regional Review Committee may provide assistance at no cost to any agency requesting help in determining its service area. This assistance will be available for a period of five (5) years after approval of the Regional Plan by the FCC.

This assistance will be limited to the numerical calculations associated with the look-up tables. It is the requesting agency's responsibility to provide accurate system parameters and procure "height above average terrain" radials as specified in 90.309(a)(4) of the Commission's rules.

PROPOSED SERVICE AREA EXHIBIT

An agency shall provide, along with its request for frequencies, an exhibit showing the calculated service area and the agency's jurisdictional boundaries. The boundaries must be drawn to scale on a 1:250,000 USGS map with a title block including the name of the requesting agency, height above average terrain, effective radiated power,

latitude, longitude, ground elevation of the transmitting site, and the distance to the service area boundary in miles, as calculated. An example is included in Appendix 14 of this Plan.

CONTROL STATION (Limit on Effective Radiated Power)

Control stations will be limited to an effective radiated power of no more than 6 dB above that of a mobile unit associated with the system. A list of control station locations) including latitude, longitude, effective radiated power, and height of antenna above ground level shall be provided with the request for frequencies.

FREQUENCY REUSE

Careful adherence to the system technical design requirements of this Plan will allow for maximum co-channel usage within this region. Because of the close proximity of adjacent channel frequencies, adjacent channel considerations must be planned similar to that of co-channel design.

Agencies requesting frequencies that have been previously licensed within this region or an adjacent region must show that their proposed system will operate on an interference-free basis with any existing co-channel system. Requesting agencies must demonstrate that the proposed system will provide an existing to proposed signal margin

of at least 35 dB at the service area boundary of the existing system.

The signal strength of the proposed system is to be calculated by the same method as outlined in “Calculation of Service Area” elsewhere in this Plan. After the distance from the proposed transmitter site to the existing service area contour is determined, the received signal strength of the proposed system can be found in the look-up tables using antenna height, effective radiated power, and distance. If it is determined that the margin of protection is insufficient, the proposed system must be modified to meet the protection criteria. A step-by-step procedure for performing the series of interference calculations is included in Appendix 15.

Adjacent Channel Design

Proposed systems must also be designed for interference-free operation with adjacent channel licensees. The method of determination is identical to that of co-channel design as detailed in ‘Co-channel Design,” elsewhere in this Plan, with the exception of the existing to proposed signal margin criteria. In the case of adjacent channel systems, this margin will be reduced to 15 dB. All other calculations will remain the same.

It should be noted that the FCC has adopted technical standards for transmitters which will reduce adjacent channel interference and permit closer geographical adjacent channel use. However, the Commission has not adopted improved receiver technical standards. It is the position of the Commission that receivers do not cause interference,

nor do they threaten effective operation of the public safety network, as would substandard transmitters.

Because of the demand for limited spectrum, it is the intent of this Plan to provide efficient spectrum utilization within current technological capabilities. Agencies are encouraged to carefully consider the receiver selectivity specifications of any equipment to be purchased for use in the 806-809/851-854 band.

Absolute Mileage Separation

In any case where the service areas of adjacent or co-channel systems are separated by at least 50 miles, the interference studies as set forth in this Plan are unnecessary because of free space and terrain losses.

TRUNKING REQUIREMENT

As referenced in the national element, trunking is mandated for any new system with more than four channels in the 800 MHz band when located at a single transmitting site. Requests for exceptions will be considered by the Regional Review Committee for mobile data use, encryption, and telemetry stations. Other requests for waiver of the trunking requirement will be considered after presentation of evidence by the requesting

agency. Approval to waive the trunking requirement will be based on the individual merits of the presentation.

SYSTEM LOADING AND IMPLEMENTATION REQUIREMENT

Agencies utilizing frequencies in the 806-809/851-854 MHz band shall comply with loading requirements as called for in Part 90.631 of the Commission's Rules and Regulations for trunked radio systems, and in Part 90.633 of the Commission's Rules and Regulations for conventional systems. As referenced in 90.631 and 90.633, Part 90.629, shall also apply.

Traffic Loading Study

Justification for adding frequencies, or retaining existing frequencies in the 806-809/851-854 MHZ band, can be provided by a traffic loading study in lieu of loading by number of transmitters per channel. It will be the responsibility of the requesting agency to provide a verifiable study showing sufficient airtime usage to merit additional frequencies. A showing of airtime usage, excluding telephone interconnect air time, during the peak busy hour greater than 70 percent per channel on three consecutive days will be required to justify additional or retain existing frequencies.

SYSTEM ENGINEERING REQUIREMENTS

System Engineering Exhibit

All requests to the Regional Review Committee for additional frequencies must include sufficient data for the Committee to be able to determine proposed system operating parameters.

The system engineering exhibit must show:

1. Transmit Output Power
2. Type of Cavities (duplexers and combiners) and Associated Losses
3. Type of Transmission Line and Associated Loss (including jumpers)
4. Antenna Model and Gain
5. Ground Elevation Above Mean Sea Level
6. Antenna Centerline AGL
7. Height Above Average Terrain of Antenna Centerline
8. Effective Radiated Power as Determined by items 1 through 4.

A proposed format for this exhibit is Appendix 16.

Average Elevation Exhibit

An additional exhibit showing the average elevation of the terrain of each of the eight main radials will be required. If an outside source is used for the calculation of average terrain, a copy of this report can be substituted for the average elevation exhibit.

CELLULAR TELEPHONE USE

The use of a car radio telephone via interconnect through an 800 MHz trunked radio system or other two-way radio communications system will normally require a significant amount of air time. Therefore, telephone interconnect is discouraged. The use of a

defeatable interconnect for radio telephone use is allowed for systems implemented under this Regional Plan. The use of cellular telephones for automatic interconnect to the Public Switched Telephone Network is recommended.

Initial Frequency

Assignment

INITIAL FREQUENCY ASSIGNMENT

METHODOLOGY

Frequencies have been initially assigned on a county-by-county basis. It should be noted that 78 percent of Region 40's population is located in the Dallas-Fort Worth Metroplex area and as such this area has the greatest need for frequencies within the Region. Using this area as the start point for making initial frequency assignments the number of frequencies allocated to each county has been correlated to population with a minimum of 2 frequencies per county and an additional frequency for each 25,000 population above 50,000.

Geographic coordinates of the center point of each of the forty-two (42) counties were determined along with a radius, in miles, of a circle encompassing the majority of the area of the county, but extending less than three miles past the county boundary.

A computer model based on the Okumura Propogation Model combined the above information with a desired received signal strength of 40 dBu to generate a distribution of the most desirable frequencies by county.

Although the Carey propagation model is called for in the part of this Plan pertaining to frequency reuse and height/power limitations, it did not exist in the form of a computer program that would allow the massive numerical calculations necessary to assign all the frequencies in the 806-809/851-854 MHz allocation over the entire Region 40 in an acceptable period of time. Predictions of the two models were compared for an area the

size of a typical Region 40 county.

The results so closely coincide that for the purpose of frequency distribution, distinguishing between the two models is unnecessary.

This distribution is made to spread the spectrum in an efficient manner regionwide, allowing for future population growth in counties outside Collin, Dallas, Denton, and Tarrant Counties (the Metroplex area), and to provide 20 channels for statewide systems which is a need identified by the State of Texas. Initial frequency assignments are included in Appendix 17, 'Initial Frequency Assignments - Region 40." "Statewide systems" is defined as a system capable of serving throughout the state in those regions having approved radio communications plans. The 20 channels are not necessarily intended for use by state agencies only.

Frequencies shown in the appendix as "to be assigned in accordance with the regional reuse protection criteria" are not assigned in the region to protect assigned adjacent channel users. These frequencies will be assigned in accordance with the Plan's reuse criteria upon depletion of county frequency pools. This will allow maximum reuse with proper protection as exact transmitter locations and service areas become known.

The Regional Planning Committee has established an initial cutoff date of November 1, 1988, to review applications in accordance with criteria established by this Plan for the purpose of assigning frequencies from the appropriate county frequency pools.

It should be noted that in order to provide maximum frequency reuse of all allocated channels, the Regional Planning Committee has detailed as a part of this Plan, reasonable co-channel and adjacent channel protection criteria that maximize frequency reuse throughout the Region. The Regional Planning Committee's desire to conserve spectrum prompted the initial distribution via county frequency pools as a starting point for efficient frequency assignments.

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Law enforcement use of aircraft, both local and statewide, is prevalent within Region 40. It is therefore necessary, as a part of this Plan, to restrict aircraft use of the 806-809/851-854 spectrum to the designated five interoperability channels.

Use of Long Range

Communications

USE OF LONG-RANGE COMMUNICATIONS

In a major emergency, where public safety entities might need long-range communications in and out of a disaster area, alternate radio communications plans are to be addressed by primary agencies within Region 40. These agencies shall include the appropriate interface to the five national channels as a minimum. Such long distance radio communications might be amateur radio operations, satellite communications and/or long-range emergency preparedness communications systems. Any or all of these systems should be incorporated in the communications plans of those primary agencies. These agencies could then communicate outside the disaster area for themselves and the smaller agencies which might need assistance. Incidents addressed in the National Public Safety Planning Advisory Committee's Plan such as earthquakes, hurricanes, floods, widespread forest fires or nuclear reactor problems could be a cause for such long-range communications needs.

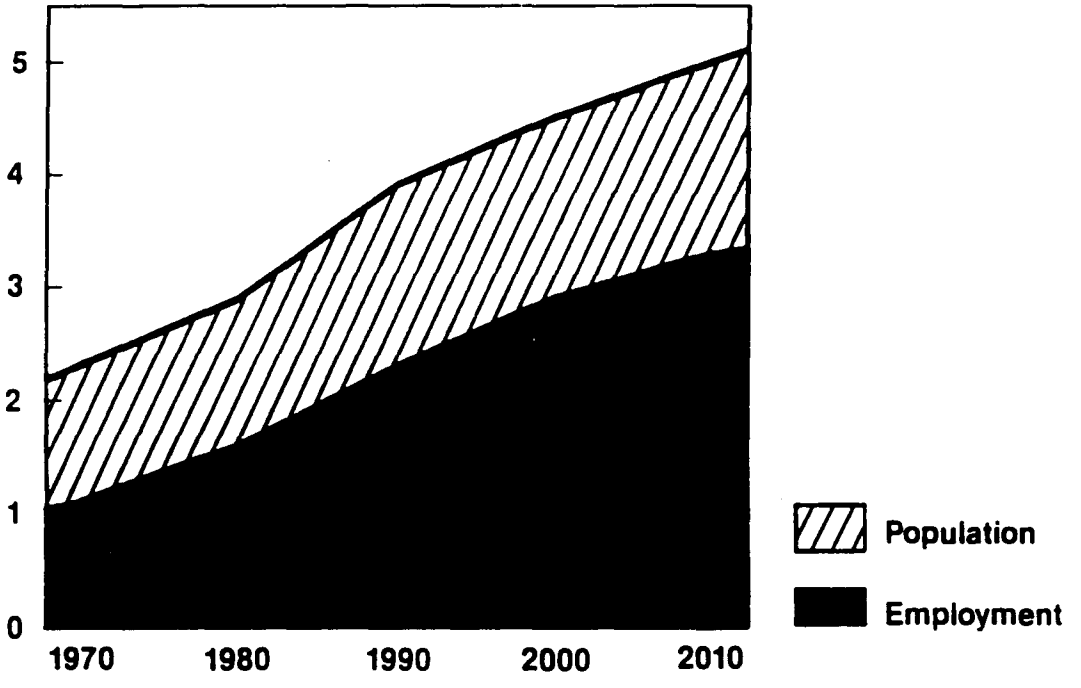
Appendices

REGION 40
SQUARE MILES BY COUNTY

COUNTY	SQ. MILES
ARK-TEX COG	
BOWIE	891
CASS	937
DELTA	278
FRANKLIN	294
HOPKINS	789
LAMAR	919
MORRIS	256
RED RIVER	1,054
TITUS	412
TOTAL	5,830
EAST TEXAS COG	
ANDERSON	1,077
CAMP	203
CHEROKEE	1,052
GREGG	273
HARRISON	908
HENDERSON	888
MARION	385
PANOLA	812
RAINS	243
RUSK	932
SMITH	932
UPSHUR	587
VAN ZANDT	855
WOOD	689
TOTAL	9,836
NORTH CENTRAL TEXAS COG	
COLLIN	886
DALLAS	907
DENTON	952
ELLIS	1,083
ERATH	952
HOOD	426
HUNT	910
JOHNSON	734
KAUFMAN	814
NAVARRO	1,086
PALO PINTO	986
PARKER	906
ROCKWALL	149
SOMERVELL	192
TARRANT	899
WISE	923
TOTAL	12,805
TEXOMA RPC	
COOKE	893
FANNIN	895
GRAYSON	934
TOTAL	2,722
REGION 40	
TOTAL	31,193

"PROJECTED POPULATION AND EMPLOYMENT DALLAS-FORT WORTH CMSA"

(in millions)



SOURCE: NCTCOG Population and Employment Forecasts 1990-2010

POPULATION TOTALS AND PROJECTIONS BY COUNTY WITHIN REGIONAL COUNCIL

ARK-TEX COUNCIL OF GOVERNMENTS

COUNTY	POPULATION 1985	POPULATION 2000	% INCREASE
BOWIE	80,497	88,053	9.4%
CASS	30,568	34,420	12.6%
DELTA	4,825	4,970	3.0%
FRANKLIN	7,247	8,348	15.2%
HOPKINS	28,705	33,980	18.4%
LAMAR	44,730	50,553	13.0%
MORRIS	14,705	17,231	17.2%
RED RIVER	15,514	15,480	-0.2%
TITUS	23,023	28,886	25.5%
TOTAL	249,814	281,921	12.9%

SOURCE: U.S. Census
Texas Department of Health

EAST TEXAS COUNCIL OF GOVERNMENTS

COUNTY	POPULATION 1986	POPULATION 2000	% INCREASE
ANDERSON	49,270	84,286	71.1%
CAMP	10,477	13,483	28.7%
CHEROKEE	41,683	53,395	28.1%
GREGG	117,872	178,023	51.0%
HARRISON	59,821	78,380	31.0%
HENDERSON	55,684	111,837	100.8%
MARION	11,684	15,715	34.5%
PANOLA	25,322	39,186	54.8%
RAINS	5,883	8,967	52.4%
RUSK	46,089	61,129	32.6%
SMITH	152,983	234,285	53.1%
UPSHUR	36,454	61,204	67.9%
VAN ZANDT	38,412	64,347	67.5%
WOOD	29,356	45,054	53.5%
TOTAL	680,990	1,049,291	54.1%

SOURCE: U.S. Census
ETCOG Population Estimates

APPENDIX 3 (continued)

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COUNTY	POPULATION 1987	POPULATION 2000	% INCREASE
COLLIN	228,533	358,000	56.7%
DALLAS	1,781,475	2,013,000	13.0%
DENTON	239,543	362,000	51.1%
ELLIS	75,296	85,000	12.9%
ERATH	28,725	30,000	4.4%
HOOD	29,049	52,000	79.0%
HUNT	67,414	76,000	12.7%
JOHNSON	90,458	103,000	13.9%
KAUFMAN	51,361	59,000	14.9%
NAVARRO	41,765	44,000	5.4%
PALO PINTO	29,232	31,000	6.1%
PARKER	58,957	67,000	13.6%
ROCKWALL	22,491	32,000	42.3%
SOMERVELL	5,876	6,000	2.1%
TARRANT	1,105,723	1,450,000	31.1%
WISE	31,814	39,000	22.6%
TOTAL	3,887,712	4,807,000	23.7%

SOURCE: NCTCOG Population Estimates

TEXOMA REGIONAL PLANNING COMMISSION

COUNTY	POPULATION 1986	POPULATION 2000	% INCREASE
COOKE	29,600	34,200	15.6%
FANNIN	24,800	26,200	5.6%
GRAYSON	98,300	108,100	10.0%
TOTAL	152,700	168,500	10.4%

SOURCE: Texoma Regional Planning Commission

APPENDIX 4

EMERGENCY MEDICAL SERVICES INFORMATION

COUNTIES	# of Ambulance Firms	# of Ambulances	# of ECA's	# of EMT's	# of EMT/SS's	# of Paramedics	TOTAL PERSONNEL
(NCTCOG)							
COLLIN	14	22	81	308	6	65	460
DALLAS	43	169	424	1,138	5	1,008	2,575
DENTON	17	26	209	350	14	83	656
ELLIS	11	23	67	162	3	36	268
ERATH	3	6	28	63	1	0	92
HOOD	4	6	19	40	1	7	67
HUNT	9	10	30	58	2	22	112
JOHNSON	10	9	66	116	20	11	213
KAUFMAN	2	7	16	63	2	17	98
NAVARRO	7	6	30	66	4	3	103
PALO PINTO	6	8	24	103	6	6	139
PARKER	3	6	16	74	3	10	103
ROCKWALL	2	0	3	4	0	7	14
SOMERVELL	2	4	25	17	1	0	43
TARRANT	46	127	258	1,918	28	393	2,597
WISE	4	5	60	28	0	7	95
(TEXOMA)							
COOKE	N/AV	3	0	0	3	12	15
FANNIN	N/AV	6	14	11	7	2	34
GRAYSON	N/AV	21	7	59	8	51	125
TOTAL	183	464	1,377	4,578	114	1,740	7,809

SOURCE: Texas Department of Health (1986 Data)

APPENDIX 5

NUMBER OF LAW ENFORCEMENT OFFICERS IN NORTH CENTRAL AND TEXOMA REGIONS

ORGANIZATION	# SWORN	# NONSWORN	# RESERVE	# JAILERS
(NCTCOG)				
Hutchins Police Department	9	0	6	0
Arlington Police Department	380	130	15	20
Irving Police Department	205	75	50	10
Lakeside Police Department	1	1	8	0
Blue Mound Police Department	5	3	8	0
Maypearl Police Department	1	2	2	0
Aubrey Police Department	2	0	5	0
Rio Vista Police Department	5	0	4	0
Murphy Police Department	2	0	2	0
Runaway Police Department	2	0	2	0
Wilmer Police Department	8	4	8	0
Springtown Police Department	4	4	10	0
Red Oak Police Department	6	5	5	0
Princeton Police Department	4	1	0	0
Saginaw Police Department	14	2	10	0
Everman Police Department	14	1	5	0
North Texas State University	20	53	0	0
Greenville Police Department	36	4	1	0
Granbury Police Department	13	0	0	0
Sachse Police Department	8	2	7	0
Commerce Police Department	12	5	8	0
Corsicana Police Department	34	10	9	0
Rockwall Police Department	17	0	0	0
Bowie Police Department	10	6	3	0
Joshua Police Department	6	0	0	0
Lake Dallas Police Department	9	6	9	0
Cleburne Police Department	36	13	0	0
Balch Springs Police Department	25	3	0	0
Weatherford Police Department	27	16	0	0
Mansfield Police Department	22	3	7	0
Keller Police Department	17	2	1	0
Allen Police Department	24	11	2	0
Watauga Department of Public Safety	28	9	5	0
Cedar Hill Police Department	23	12	12	0
Euless Police Department	55	25	0	0
Burleson Police Department	27	9	0	0
University Park Police Department	32	8	6	0
Duncanville Police Department	47	7	0	41
Lewisville Police Department	81	14	12	0
Fort Worth Police Department	951	298	87	0
Hurst Police Department	55	27	6	5
Denton Police Department	87	15	20	0
Grand Prairie Police Department	127	63	50	9
Highland Park D.P.S.	48	8	0	0
N. Richland Hills Police Department	63	22	0	1
Plano Police Department	156	80	0	7
Garland Police Department	190	61	0	8

Appendix 5 (continued)

ORGANIZATION	# SWORN	# NONSWORN	# RESERVE	# JAILERS
(NCTCOG)				
Mesquite Police Department	140	36	0	5
Dallas Police Department	2,300	0	0	0
Dallas County Sheriff's Office	426	305	147	566
(TEXOMA)				
Sherman Police Department	50	17	19	-
Denison Police Department	41	9	-	-
Gainesville Police Department	31	-	-	-
Bonham Police Department	14	5	9	-
Lindsay Police Department	1	-	-	-
Cooke County Sheriff's Department	14	10	8	-
Fannin County Sheriff's Department	9	6	5	-
Grayson County Sheriff's Department	53	15	25	-
Valley View Police Department	1	-	-	-
Muenster Police Department	3	-	-	-
Bailey	-	-	-	-
Bells Police Department	2	-	-	-
Callisburg	-	-	-	-
Collinsville Police Department	2	-	-	-
Dodd City	-	-	-	-
Dorchester	-	-	-	-
Ector Police Department	1	-	2	-
Gunter Police Department	1	-	-	-
Honey Grove Police Department	4	-	-	-
Howe Police Department	5	-	-	-
Ladonia Police Department	2	-	-	-
Leonard Police Department	1	-	4	-
Luella	-	-	-	-
Pottsboro Police Department	3	-	2	-
Sadler	-	-	-	-
Savoy Police Department	1	-	-	-
Southmayd	-	-	-	-
Tioga Police Department	2	-	-	-
Tom Bean Police Department	1	1	-	-
Trenton Police Department	1	-	-	-
Van Alstyne Police Department	4	-	-	-
Whitesboro Police Department	4	-	1	-
Whitewright Police Department	3	-	-	-
Windom	-	-	-	-
Oakridge	-	-	-	-
TOTAL	6,069	1,424	607	672

SOURCE: NCTCOG Survey of Local Departments and Texoma Regional Planning Commission

NORTH CENTRAL TEXAS/STATE COMPARISON OF 1983 AND 1986 INDEX CRIMES, RATE/100,000, AND ARRESTS

	1983		1986		Percent Increase	
	NCT	State	NCT	State	NCT	State
Index Crime	254,373	928,803	386,681	1,235,505	52%	33%
Rate/100,000	7,382.2	6,079	10,410.6	7,406	41%	22%
Arrests	40,342	163,939	52,082	194,099	29%	18%

SOURCE: Texas Department of Public Safety

FIRE SERVICE
PERSONNEL BY JURISDICTION

Agency	Paid Fire-fighters	Paid Officers	Volunteer Firefighters	Volunteer Officers	Total
(NCTCOG)					
Dallas Fire Department					1,760**
Bell Helicopter-Textron	19	2			21
Hurst Fire Department	10	26			36
The Colony Fire Department	9	2	7	29	47
Coppell Fire Department	21	96	6		123
Garland Fire Department	147	53			200
Saginaw Fire Department	4	2	22	3	31
Irving Fire Department	170	51			221
N. Richland Hills Fire Dept.	41	16			57
Benbrook Fire Department	16	3	10		29
Farmers Branch Fire Dept.	54	8			62
University Park Fire Dept.	30	3			33
Seagoville Fire Department	5	5	12	4	26
Keller Fire Department	6	1	20	4	31
Azle Fire Department	4	3	22	3	32
Crowley Fire Department		2	30		32
Rowlett Fire Department	15	8	15	1	39
Waxahachie Fire Department	24	10			34
Denton Fire Department	69	23			92
Bedford Fire Department	20	5	14	3	43
Euless Fire Department	26	15			41
Kennedale Fire Department	1	1	22	2	26
Ennis Fire Department	18	8	15	3	44
Chico Fire Department			25	3	28
Forest Hill Fire Department	9	5	6	2	22
Richland Hills Fire Dept.	9	5			14
Murphy Fire Department			30	7	37
Burleson Fire Department		1	35	4	40
Highland Park Fire Department	49	16	5		70
Arlington Fire Department	183	77			260
Fort Worth Fire Department	740				740
Plano Fire Department	120	31			151
Colleyville Fire Department	6	3	35	4	48
Midlothian Fire Department	6		21	3	30
Fairview Fire Department		1	14	4	19
Carrollton Fire Department	102				102
Stephenville Fire Department	18	4	26		48
Grapevine Fire Department	30	16			46
Mansfield Fire Department	8	8	10	1	27
Watauga Public Safety	21	7	22	5	55
Keene Fire Department			14	8	22
Mesquite Fire Department	97	38			135

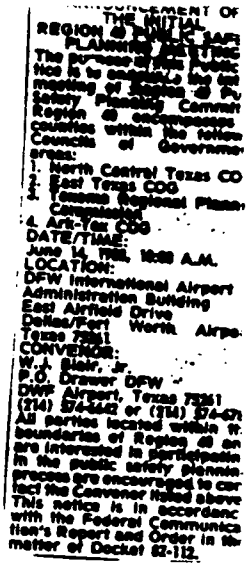
APPENDIX 7 (continued)

Agency	Paid Fire-fighters	Paid Officers	Volunteer Firefighters	Volunteer Officers	Total
(TEXOMA)					
Denison Fire Department	52	6	-		58
Sherman Fire Department	68	14	-		82
Bonham Fire Department	10	4	30		44
Honey Grove Fire Department	1	-	-		1
Gainesville Fire Department	24	6	20		50
Small Cities	2	-	450		452
TOTAL	2,264*	600*	938*	93*	5,641

* Does Not Include Dallas Fire Service Personnel

** Includes Total Dallas Personnel

APPENDIX 8


THE NOTICE OF
REGION 41
PLANNING
The purpose of this notice is to announce public meeting of persons in the Safety Planning Commit Region 41 and interested counties within the follow Councils of Governments areas:
1. North Central Texas CO
2. East Texas COG
3. Texoma Regional Plann Commission
4. Ark-Tex COG
DATE/TIME:
June 14, 1988, 10:00 A.M.
LOCATION:
DFW International Airport Administration Building East Airfield Drive Dallas/Fort Worth Airpo Texas 75261
CONVENOR:
W.J. Blair, Jr.
P.O. Drawer DFW
DFW Airport, Texas 75261
(214) 574-4402 or (214) 574-47
All parties located within th boundaries of Region 41 an are interested in participatin in the public safety planning process are encouraged to con tact the Convenor listed above This notice is in accordanc with the Federal Communica tion's Report and Order in th matter of Docket 82-112.

'88 MAY 18 11:50

D/

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS

COUNTY OF DALLAS

Before me, a Notary Public in and for Dallas County, this day personally ppeared E. V. Dyer, Assistant Manager of Classified Advertising, of THE DALLAS MORNING NEWS, who being duly sworn by oath, states the attached advertisement f:

----------Dallas/Fort Worth International Airport----------

was published in THE DALLAS MORNING NEWS on ----------

----------April 14, 24, & May 8, 1988----------
(P.O. #3270P)

(E. V. Dyer)

sworn to and subscribed before me this 16th day of May 1988 AD.

Paula J. Blessing
Paula Blessing

Make Copy
for
Joe Blair

PAULA J. BLESSING
Notary Public
STATE OF TEXAS
My Comm. Exp. June 28, 1989

(END)

APPENDIX 8 (continued)

REGION 49 PUBLIC SAFE...
PLANNING MEETING
The purpose of this Public...tice is to announce the ho... meeting of Region 49 P... Safety Planning Commiss... Region 49 encompasses ... counties within the follow... Councils of Governments ... areas:
1. North Central Texas C...
2. East Texas COG
3. Texoma Regional Plan... Commission
4. Ark-Tex COG;
DATE/TIME:
June 14, 1988, 10:00 A.M.
LOCATION:
DFW International Airpo... Administration Building
East Airfield Drive
Dallas/Fort Worth Airpo...
Texas 75261
CONVENOR:
W.J. Blair, Jr.
P.O. Drawer DFW
DWF Airport, Texas 7526...
(214) 574-4442 or (214) 574...
All parties located within t... boundaries of Region 49 a... are interested in participati... in the public safety planni... process are encouraged to ... fact the Convenor called th... This notice is in accord... with the Federal Commu... tion's Report and Order in t... matter of Docket 87-112.

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS

COUNTY OF DALLAS

Before me, a Notary Public in and for Dallas County, this day per appeared E. V. Dyer, Assistant Classified Director of THE DALLAS MORNING NEWS, who being duly sworn by oath, states the attached advertisement of:

----------Dallas/Fort Worth International Airport----------

was published in THE DALLAS MORNING NEWS on ----------

----------May 15, 29, & June 12, 1988----------

(E. V. Dyer)

sworn to and subscribed before me this 21th day of June 1988 AD.

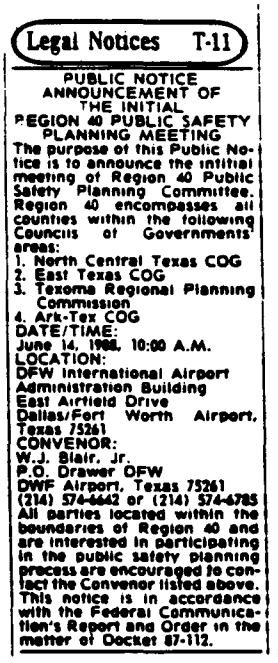
Paula Blessing

PAULA J. BLESSING
Notary Public
STATE OF TEXAS
My Comm. Exp. June 28, 1989

JUL 22 13:21

(END)

APPENDIX 8 (continued)



Legal Notices T-11

PUBLIC NOTICE
ANNOUNCEMENT OF
THE INITIAL
REGION 40 PUBLIC SAFETY
PLANNING MEETING

The purpose of this Public Notice is to announce the initial meeting of Region 40 Public Safety Planning Committee. Region 40 encompasses all counties within the following Councils of Governments' areas:

1. North Central Texas COG
2. East Texas COG
3. Texoma Regional Planning Commission
4. Ark-Tex COG

DATE/TIME:
June 14, 1988, 10:00 A.M.
LOCATION:
DFW International Airport
Administration Building
East Airfield Drive
Dallas/Fort Worth Airport,
Texas 75261
CONVENOR:
W.J. Blair, Jr.
P.O. Drawer DFW
DWF Airport, Texas 75261
(214) 574-6442 or (214) 574-6785

All parties located within the boundaries of Region 40 and are interested in participating in the public safety planning process are encouraged to contact the Convenor listed above. This notice is in accordance with the Federal Communication's Report and Order in the matter of Docket 87-112.

PRESS RELEASE
April 12, 1988

ANNOUNCEMENT OF THE INITIAL REGION 40 PUBLIC SAFETY PLANNING MEETING

The purpose of this Public Notice is to announce the initial meeting of Region 40 Public Safety Planning Committee. Region 40 encompasses all counties within the following Councils of Governments' areas:

1. North Central Texas COG
2. East Texas COG
3. Texoma Regional Planning Commission
4. Ark-Tex COG

DATE/TIME: June 14, 1988 10:00 A.M.

LOCATION: DFW International Airport
Administration Building
East Airfield Drive
Dallas/Fort Worth International Airport, Texas

CONVENOR: W. J. Blair, Jr.
P.O. Drawer DFW
DFW Airport, Texas 75261
(214)574-6642 or (214)574-6785

All parties located within the boundaries of Region 40 and are interested in participating in the public safety planning process are encouraged to contact the Convenor listed above.

This notice is in accordance with the Federal Communication's Report and Order in the matter of Docket 87-112.

Dallas / Fort Worth
International Airport

Orls W. Dunham, Jr.
Executive Director

April 8, 1988

Mr. Larry Jordan, President
NATIONAL ASSOCIATION OF STATE
EMS DIRECTORS
Emergency Medical Services
1317 Winewood Blvd., Bldg. #8
Tallahassee, FL 32301

Dear Mr. Jordan:

In accordance with the Federal Communications Commission's (FCC) Report and Order released December 18, 1987 in the matter of General Docket No. 87-112, and having been duly certified to the Federal Communications Commission by the Associates Public Safety Communications Officers, Inc. as Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee for Region 40 in the State of Texas, I hereby give Public Notice that such an initial meeting will be held beginning at 10:00 a.m. on June 14, 1988 in the Dallas/Fort Worth International Airport's Administration Building located on East Airfield Drive, Dallas/Fort Worth International Airport, Texas.

The responsibility of the Regional Planning Committee will be to develop a Plan for the use of frequencies in the 821-824 and 866-869 megahertz bands allocated by the FCC for use by such licenses.

Because interoperability with all levels of government is desirable, you are invited to participate. All parties interested in participation in the regional planning process should contact me.

Region 40 encompasses the northeast Counties of Texas as shown on the attached map.

Copies of the Report and Order are available from the FCC's duplication contractor, International Transcription Services, Inc., Suite 140, 2100 M Street, N.W., Washington, D.C. 20037. Phone No. (202)857-3800.

W.J. Blair, Jr.
Region 40 Convenor
P.O. Drawer DFW
DFW Airport, Texas 75261
(214)574-6642

W. J. Blair Jr.
Convenor

Attachment - Region 40 County Map

ASSOCIATIONS AND ORGANIZATIONS

Executive Director
AASHTO
444 N. Capitol St., NW
Suite 225
Washington, D.C. 20001

Executive Director
AMERICAN HOSPITAL ASSOCIATION
840 N. Lake Shore Drive
Chicago, IL 60611

Mr. Robert Tall
APCO
930 Third Avenue
P.O. 669
New Smyrna Beach, FL 32070

Executive Director
Forestry - Conservation Communications
Association
P.O. Box 3758
Charlottesville, VA 22903-0758

Executive Director
FOREST INDUSTRIES TELECOMMUNICATIONS
P.O. Box 5446
Eugene, OR 97405

Executive Director
INTERNATIONAL ASSOCIATION OF
CHIEFS OF POLICE
13 Firstfield Road
P.O. Box 6010
Gaithersburg, MD 20878

Executive Director
IBTTA
2120 L St., NW #305
Washington, D.C. 20037

Executive Director
INTERNATIONAL MUNICIPAL SIGNAL
ASSOCIATION
P.O. Box 8249
Fort Worth, Texas 76112

Executive Director
LAND MOBILE COMMUNICATIONS COUNCIL
1150 - 17th St., NW
Suite 1000
Washington, D.C. 20036

Executive Director
NATIONAL ASSOCIATION OF BUSINESS
AND EDUCATIONAL RADIO
1330 New Hampshire, NW #122
Washington, D.C. 20036

Mr. Robert O. Parrish
AMERICAN NATIONAL RED CROSS
18th and D Streets, NW
Washington, D.C. 2006

Mr. Bob Kellow
AMERICAN COLLEGE OF EMERGENCY PHYSICIANS
P.O. Box 619911
Dallas, Texas 75261-9911

Mr. Larry Jordan, President
NATIONAL ASSOCIATION OF STATE
EMS DIRECTORS
Emergency Medical Services
1317 Winewood Blvd., Bldg. #8
Tallahassee, FL 32301

Mr. Raymond C. Scheppach
Executive Director
NATIONAL GOVERNORS ASSOCIATION
Hall of the States
444 N. Capitol Street, NW
Washington, D.C. 20001

Mr. Garth G. Shibles
NATIONAL COMMUNICATIONS SYSTEM
8th and S. Courthouse Road
Arlington, VA 22204

Dallas / Fort Worth
International Airport

Orls W. Dunham, Jr.
Executive Director

April 11, 1988

FEDERAL COMMUNICATION COMMISSION
News Media Information
1919 M Street, N.W.
Washington, D.C. 20554

Gentlemen:

Please publish the attached Public Notice announcing the initial meeting of Region 40 Public Safety Planning Committee.

W.J. Blair, Jr.
Convenor, Region 40

cc: Dr. Tom Stanley
FEDERAL COMMUNICATION COMMISSION
Office of Engineering Technology
Room 7002
2025 M St., N.W.
Washington, D.C. 20554

Mr. Ralph Haller, Chief
FEDERAL COMMUNICATION COMMISSION
Room 5002
2025 M St., N.W.
Washington, D.C. 20554

PAT:L-0148jb

FEDERAL COMMUNICATION COMMISSIONS

FEDERAL COMMUNICATION COMMISSION
News Media Information
1919 M Street, N.W.
Washington, D.C. 20554

Dr. Tom Stanley
FEDERAL COMMUNICATION COMMISSION
Office of Engineering Technology
Room 7002
2025 N Street, N.W.
Washington, D.C. 20554

Mr. Ralph Haller, Chief
FEDERAL COMMUNICATION COMMISSION
Room 5002
2025 M Street, N.W.
Washington, D.C. 20554

Ms. Sandra Morris
FEDERAL COMMUNICATION COMMISSION
9330 LBJ Freeway
Dallas, Texas

Dallas / Fort Worth

International Airport

Orls W. Dunham, Jr.
Executive Director

April 13, 1988

Editor
FCC WEEK
1300 North 17th Street
Arlington, VA 22209

Dear Sir:

Attached is a copy of the Press Release announcing the Initial Region 40 Public Safety Planning meeting. As a matter of public service to your readers, you are encouraged to publish this information in your publication.

In accordance with the Federal Communications Commission's (FCC) Report and Order released December 18, 1987 in the matter of General Docket No. 87-112, and having been duly certified to the Federal Communications Commission by the Associates Public Safety Communications Officers, Inc. as Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee for Region 40 in the State of Texas, I hereby give Public Notice that such an initial meeting will be held beginning at 10:00 a.m. on June 14, 1988 in the Dallas/Fort Worth International Airport's Administration Building located on East Airfield Drive, Dallas/Fort Worth International Airport, Texas.

The responsibility of the Regional Planning Committee will be to develop a Plan for the use of frequencies in the 821-824 and 866-869 megahertz bands allocated by the FCC for use by such licenses. Region 40 encompasses the northeast Counties of Texas as shown on the attached map.

Copies of the Report and Order are available from the FCC's duplication contractor, International Transcription Services, Inc., Suite 140, 2100 M Street, N.W., Washington, D.C. 20037. Phone No. (202)857-3800.

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W. J. Blair, Jr.
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Attachments - Region 40 County Map
Press Release

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April 8, 1988

Regional Director
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Dear Sir:

In accordance with the Federal Communications Commission's (FCC) Report and Order released December 18, 1987 in the matter of General Docket No. 87-112, and having been duly certified to the Federal Communications Commission by the Associates Public Safety Communications Officers, Inc. as Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee for Region 40 in the State of Texas, I hereby give Public Notice that such an initial meeting will be held beginning at 10:00 a.m. on June 14, 1988 in the Dallas/Fort Worth International Airport's Administration Building located on East Airfield Drive, Dallas/Fort Worth International Airport, Texas.

The responsibility of the Regional Planning Committee will be to develop a Plan for the use of frequencies in the 821-824 and 866-869 megahertz bands allocated by the FCC for use by such licenses.

Because interoperability with all levels of government is desirable, you are invited to participate. All parties interested in participation in the regional planning process should contact me.

Region 40 encompasses the northeast Counties of Texas as shown on the attached map.

Copies of the Report and Order are available from the FCC's duplication contractor, International Transcription Services, Inc., Suite 140, 2100 M Street, N.W., Washington, D.C. 20037. Phone No. (202)857-3800.

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Attachment - Region 40 County Map

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Ms. Pat West
TEXAS DEPARTMENT OF HEALTH
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Austin, Texas 78756

MINUTES OF THE INITIAL PUBLIC SAFETY REGION 40 PLANNING COMMITTEE MEETING

The initial meeting of the Public Safety Region 40 Planning Committee was held on Tuesday, June 14, 1988, in the Board Room of the Dallas/Fort Worth International Airport Board. The meeting was called to order at 10:15 a.m. by the Convenor, W.J. Blair, Jr.

Attendees:

Dan Scrivner	City of Dallas
David Cleveland	Cooke County
Tom Watson	City of Gainesville
Janell Browning	Ark-Tex Council of Govts.
Pat Worsham	Texas Department of Health
Jimmy Dunn	Public Health, Region 5
Charles Barbier	Texas Forest Service
Joanne Jackson	N. Central Texas Council of Govts.
Michael Williams	N. Central Texas Council of Govts.
David M. West	Denison City Fire Department
Bryan Judd	Texas Department of Public Safety
Ron H. Staggs	Texas Department of Public Safety
Byron Harrison	Plano Police Department
J.R. Bell	Bell Communications
Wes Trussell	Fort Worth Police Department
Charles O. Bowles	City of Dallas, Retired
Chuck Graves	City of Fort Worth
Paul Wellborn	General Electric
E.B. Gladding	City of Greenville,
J.D. McGee	City of Greenville
Fred Keithley	N. Central Texas Council of Govts.
Coy Martin	Fort Worth Police Department
Capt. Jim Lovell	Denison Police Department
Emil Vogel	Motorola
James M. Atkins, M.D.	University of Texas SW Medical Center
W.J. Blair, Jr.	Dallas/Fort Worth Airport Board
Martin S. Angel	Texas Turnpike Authority
Sandra Morris	Federal Communications Commission
John L. Long	City of Fort Worth
Ron Minatrea	Motorola
Barry D. Worden	City of Arlington
Harold Simpson	Motorola Resource
John Van Son	Motorola
Ed Alamo	Motorola
James W. Griffin	Texas Turnpike Authority
Frances Pelley	Texoma Regional Planning Commission
Alan Williams	Texoma Regional Planning Commission
Mike B. Smith	Air Waves Communications
Charles Whitley, Chief	Paris Police Department
Carl E. Dunlap, Chief	Gainesville Police Department

As the first order of business, Convenor W. J. Blair Jr. appointed Pat Marcum to serve as Temporary Recording Secretary until the Regional Planning Committee Chairman is elected.

Convenor Blair stated that the purpose of this meeting was to convene as the initial meeting of the Regional Planning Committee for Region 40 as required in the Report and Order from the Federal Communications Commission in Docket 87-112.

Background and history of the developments leading to the public safety planning process, allocation of additional 800 mHz. spectrum, and the regional planning requirement were given by Convenor Blair.

Convenor Blair introduced Mr. Pete Gladding, the President of the Executive Board of the North Central Texas Council of Governments and a member of The North Central Texas Council of Governments' Public Safety Communications Advisory Committee and Mr. Fred Keithley, Director of Human Services for North Central Texas Council of Governments. Mr. Keithley then introduced Janell Browning, Criminal Justice Director for the Ark-Tex Council of Governments and Frances Pelley, Texoma Regional Planning Commission.

Convenor Blair explained the planning involvement of the North Central Texas Council of Governments and its Advisory Committee as it related to regional planning before the regional boundaries were established by the Report and Order.

Convenor Blair explained that this was an open meeting, a meeting whose intent is to represent eligible users within the 42 counties of Region 40. He also explained that the election of a Chairman would be conducted in accordance with Robert's Rules of Order for an initial organizational meeting.

Convenor Blair then stated that he would entertain a motion for the Chairman of Region 40 Planning Committee. Dan Scrivner moved that Mr. Charlie Bowles be made the Chairman of the Region 40 Planning Committee. The motion was seconded by John Long.

After some discussion as to the requirements of a chairman and the qualifications of Mr. Bowles, the question was called. Mr. Bowles was elected chairman with one dissenting vote.

Following the election of chairman, the meeting was recessed for a brief coffee break. After the break, Chairman Bowles called the meeting to order by having all attendees introduce themselves.

Chairman Bowles asked all to be sure and sign the attendance sheet and provide the information required by the Report and Order.

The Chairman then appointed Pat Marcum as Permanent Recording Secretary.

Having passed out a set of suggested temporary rules, Convenor Blair moved that they be adopted as Temporary Rules to serve the Committee until such time as they are replaced by permanent rules. Mr. Gladding seconded the motion. The motion carried.

As required by the newly adopted Temporary Rules, the Chairman called for the election of a Vice-Chairman of the Regional Planning Committee. Dan Scrivner moved that W. J. Blair Jr. be elected Vice-Chairman. The motion was seconded by John Long. The motion carried.

The Chairman announced that a permanent rules committee would be appointed subsequent to today's meeting.

Chairman Bowles explained that the Regional Planning Committee would be organized by establishing Task Teams as was earlier referred to by Convenor Blair and that sign up sheets are available for each Task Team. He encouraged all to sign up to work on the Task Team of specific interest. He also stated that he would assign those members of the North Central Texas Public Safety Communications Advisory Committee to the same tasks they have on the COG Advisory Committee.

A motion was made and seconded that the NCTCOGPSCAC subcommittee chairman serve as the Task Team Facilitators for the Regional Planning Committee. The motion passed. The Chairman then instructed these persons to contact those who sign up for their respective Task Teams.

Convenor Blair passed out a draft of the work that the North Central Texas Communications Advisory Committee had written to be used as the basis for the Regional Plan.

Chairman Bowles announced that the next committee meeting would be July 26, 1988 at the facilities of the North Central Texas Council of Governments in Arlington, Texas.

The Chairman thanked Joe Blair for his excellent contribution as the Convenor. He announced that the draft of our Regional Plan should be complete enough to present to the FCC informally at the APCO National Conference to be held in Little Rock, Arkansas on August 8, 1988.

The Chairman announced his address and telephone number with instructions to call if questions arise.

There being no further business on the agenda, a motion and second was made from the floor to adjourn. The motion passed and the meeting was adjourned.

Pat Marcum, Recording Secretary

C O Bowles
Charlie O. Bowles, Chairman

Passed July 26th, 1988

MINUTES OF THE
SECOND PUBLIC SAFETY REGION 40
PLANNING COMMITTEE MEETING

The second meeting of the Public Safety Region 40 Planning Committee was held on Tuesday, July 26, 1988, in the North Central Texas Council of Government Conference Room. The meeting was called to order at 9:45 a.m by Chairman, Charles Bowles.

Attendees:

George Teague	City of Weatherford/Parker County
Barry Worden	City of Arlington
Dan Scrivner	City of Dallas
W.J. Blair, Jr.	Dallas/Fort Worth Airport Board
Ken Yoder	State of Texas Frequency Coordinator
Jimmy Dunn	EMS, Public Health, Region 5
Gary Price	East Texas Council of Governments
J.R. Bell	Bell Communications
Roger Dutcher	ElectroComm Automation
C.O. Bowles	City of Dallas, Retired
C.A. Graves	City of Fort Worth
Joe Hanna	Richardson Police Department
Buddy Braziel	City of Carrollton
Emil Vogel	Motorola
Harold Simpson	Motorola
Tom Newell	University of North Texas, Telecom Department
Frances Pelley	Texoma Council of Governments
Pat Worsham	Texas Department of Health
Alan Williams	County of Denton

As the first order of business Chairman Bowles called the meeting to order by welcoming all in attendance and by having all attendees introduce themselves.

The last meeting minutes were read by the Recording Secretary. W.J. Blair, Jr. moved that the minutes be approved with all typographical errors corrected and Mr. Gladding seconded the motion. The minutes were approved by an unanimous vote.

Chairman Bowles gave a brief summary of work done thus far.

Revised drafts of the Regional Plan were handed out. The draft was read, revisions discussed at length, and incorporated as appropriate.

Chairman Bowles explained that the Regional Plan at this stage was only a draft and would be taken to the National APCO Conference in Little Rock, Arkansas for review by the FCC and any changes would be made per their suggestions. Chairman Bowles explained that this draft is in no way the final Regional Plan.

Chairman Bowles announced that the next committee meeting would be held August 23, 1988 at 9:30 at the facilities of the North Central Texas Council of Governments in Arlington, Texas.

Questions were asked in regards to the costs of the Regional Planning Committee. Mr. Fred Keithley of the North Central Texas Council of Governments stated at this time the Council of Government felt that this cause was appropriate for the Council to be involved in and would assume the costs of printing, distribution, etc.

There being no further business on the agenda, a motion and second was made from the floor to adjourn. The motion passed and the meeting was adjourned.

Pat Marcum
Pat Marcum, Recording Secretary

C O Bowles
Charles Bowles, Chairman

MINUTES OF THE
THIRD PUBLIC SAFETY REGION 40
PLANNING COMMITTEE MEETING

The third meeting of the Public Safety Region 40 Planning Committee was held on Tuesday, August 23, 1988, in the North Central Texas Council of Governments Conference Room. The meeting was called to order at 9:50 a.m by Chairman, Charles Bowles.

Attendees:

Charles O. Bowles	City of Dallas, Retired
Byron Harrison	Plano Police Department
Don Nelson	Mesquite Fire Department
Frances Pelley	Texoma Council of Governments
Chuck Graves	City of Fort Worth
Gary Price	East Texas Council of Governments
Bryan L. Judd	Texas Department of Public Safety
Kenneth C. Yoder	Texas Department of Public Safety
Dan Scrivner	City of Dallas
Harold Simpson	Motorola
Joe Hanna	Richardson Police Department
Emil Vogel	Motorola
Ron Minatrea	Motorola
Wes Trussell	Fort Worth Police Department
Sandra Morris	Federal Communications Commission
Jimmie L. Badgett	Dallas County Fire Marshall
Buddy Braziel	City of Carrollton
E. B. Gladding	North Central Texas Council of Governments
W.J. Blair, Jr.	DFW International Airport Board
Fred Keithley	North Central Texas Council of Governments
Mike Williams	North Central Texas Council of Governments
Joann Jackson	North Central Texas Council of Governments

As the first order of business Chairman Bowles called the meeting to order by welcoming all in attendance and by having all attendees introduce themselves.

Chairman Bowles gave a brief summary of the APCO Convention held in Little Rock, Arkansas. A rough draft of the Plan was presented to the FCC for their review and in their opinion, minor changes were needed.

The last meeting minutes were read by the Recording Secretary. Mr. E.B. Gladding moved that the minutes be approved with all typographical errors corrected and Mr. Buddy Braziel seconded the motion. The minutes were approved by an unanimous vote.

Chairman Bowles thanked Fred Keithley of the North Central Texas Council of Governments for the attractive illustration and binder of the Plan as given to the FCC. He also stated that our Plan was the most attractive Plan submitted.

Emil Vogel gave the Committee a general overview of the Notice of Inquiry and recommended that this Committee comment on the Notice.

Mr. Fred Keithley of the North Texas Council of Governments introduced the Council of Governments present. The Texoma Council of Government and the East Texas Council of Governments were both in agreement that their regions supported the Regional Plan as written.

Mr. Joe Blair requested permission to file comments, in the name of the Committee, to the Notice of Inquiry and also to state the fact that the standards issue is a completely different issue from the planning issue. If time permits, a subcommittee will be formed to answer the Notice of Inquiry.

Mr. Blair pooled the Committee on whether standards should be written before or after the frequencies are assigned. Unanimously, the Committee agreed that standards should be written after the frequencies are assigned.

Mr. Blair made a motion to response to the Notice of Inquiry, Mr. Buddy Braziel seconded.

The Regional Plan draft as submitted to the FCC in Little Rock had been previously mailed to all Committee members. The Regional Plan was reviewed page by page, revisions as suggested by the FCC were discussed at length, and incorporated as appropriate.

A motion to approve the Regional Plan with editorial privileges was made by Byron Harrison and seconded by Buddy Braziel, the motion passed unanimously.

Chairman Bowles will call the next meeting of the Committee members is needed. No meeting is scheduled at this time.

There being no further business on the agenda, a motion for adjournment was made by Buddy Braziel and seconded by Byron Harrison, the motion carried

Pat Marcum, Recording Secretary

C O Bowles

Charles Bowles, Chairman

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** Resource Members of NCTCOG's Public Safety Communications Advisory Committee

EVALUATION CRITERIA

The criteria incorporate a filing concept which provides for the evaluation of all applications for available spectrum. The evaluation is a sequence of events that will be followed in the assignment of the 821-824/866-869 MHz spectrum within Region 40.

In order to provide for maximum frequency reuse, the allocation has been placed in county frequency pools as a starting point. An initial closing date of November 1, 1988, has been established for all survey-identified applicants to submit applications in accordance with this Regional Plan. In order to make frequency assignments objectively, the Regional Review Committee will evaluate these initial applications in accordance with the criteria established by this section of the plan, awarding a score for each application. That score will be the total of the points awarded in the five categories outlined below. Frequency assignments will be made for these applications using the appropriate county frequency pool. If in the four Metroplex counties, valid applications exceed the available spectrum, frequencies will be awarded to those applicants with the highest descending score order.

Applications received after the November 1, initial closing date will be evaluated by the Regional Review Committee in similar fashion each month.

Frequency assignments will be made first by utilizing individual county frequency pools as the spectrum resource. As these pools are depleted, frequencies will be assigned utilizing protection criteria as defined in this Plan, until all frequencies offering minimum protection are depleted.

APPENDIX 11 (continued)

EVALUATION SCORING CATEGORIES

1. Service (maximum score, 35 points). Each of the eligible services has a predetermined point value (see value rating, page ___). An applicant for a system for multiple services will be scored on the basis of the sum of the maximum points for each service reduced by the percentage that each service represents of the total system. For example, a system application for use by 50 percent police, 25 percent local government (utility operations) and 25 percent highway (street maintenance) would be scored as follows:

   Police - 35 points maximum value times 50 percent system use equals a score of 17.5 points.

   Local Government (utility operations) - 30 points maximum value times 25 percent system use equals a score of 7.5 points.

   Highway (street maintenance) - 30 points maximum value times 25 percent system use equals a score of 7.5 points.

   Total points awarded for this system is the sum of 17.5, 7.5, and 7.5, for a total of 32.5 points.

2. Intersystem Communications (maximum score, 10 points). The application is scored on the degree of interoperability that is demonstrated, with a range of points from 0 to 10. No points are awarded for use of the mandated designated interoperability channels. These points are awarded for the applicant's ability to communicate with different levels of government and other services during times of emergency.

3. Cooperative Systems (maximum score, 25 points). Those applicants that have demonstrated that they are part of a cooperative, multi-organization system will be scored on a range of 0 to 25 points depending upon the extent of the cooperation.

4. System Implementation Factors (maximum score, 10 points). This category scores the applicant from 0 to 10 points on the degree of budgetary commitment. If funding has been provided by a line item budget or equivalent in a sufficient amount for immediate implementation, a score of 10 points will be awarded.

5. Give-back Frequencies (maximum score, 20 points). This category is divided into two factors, each with a point value of 0 to 10 points.

   a. The greater the number of give-back frequencies, the greater the number of points that will be awarded up to a maximum of 10.

   b. The greater the need for the give-back frequencies by other agencies, the greater the number of points that will be awarded up to a maximum of 10. For example, a statewide police frequency, as a give-back, would not be awarded as many points as would a needed VHF frequency usable by a local police or fire department.

Points are totaled for each application and the applications are prioritized by the Regional Review Committee according to the total score. As frequencies are assigned, the appropriate county frequency pool is updated to reflect the frequencies assigned.

Systems implementation is monitored by the Regional Review Committee which determines the progress being made. If progress is found lacking, the licensee is informed of the consequences of the lack of progress. If continued monitoring indicates that sufficient progress is not taking place, the licensee is notified of pending action of the Regional Review Committee to recommend to the FCC that the license be withdrawn. Should the license be withdrawn, these frequencies will be returned to the county frequency pool.

APPEAL PROCESS

Throughout the frequency allocation process, applicants are given opportunities to appeal decisions which have caused rejection of their application. The appeal process has two levels; the Regional Review Committee and the Federal Communications Commission (FCC). An applicant who decides to appeal a rejection should file the appeal with the Regional Review Committee within 30 days from notification of rejection. If the applicant is not satisfied with the Regional Review Committee's final decision based on the appeal, the applicant may file an appeal with the FCC by letter to the Secretary. The FCC's decision will be final and binding upon all parties.

APPENDIX 11 (continued)

NORTH CENTRAL AND NORTH EAST TEXAS REGION 40 PLAN

VALUE RATING FOR TYPES OF USAGE	POINT VALUE
Local Government	
Transit Systems	15
Utility Operations	30
Administration	15
Maintenance	15
Security Patrols	15
Other Functions	15
Police	35
Fire	35
Highway	30
Forest Fire	30
Conservation	25
Medical Services	
Hospitals	10
Patient Transfer (vans, etc.)	5
Physicians	5
Emergency Medical Services (BLS and ALS)	35
Handicapped Transportation (vans, etc.)	15
Veterinarians	5
Disaster Relief Organizations	15
School Buses	
Private Under Contract	5
School District Operated	5
Included in an approved Emergency Management Evacuation Plan	15
Beach Patrols	5
Isolated Areas	5
Comm. Standby Facilities	5
Repair of Comm. Facilities	5

TABULATED DATA FROM CAREY PROPAGATION CURVES

UHF F(50,50) dBu/kW erp

MILES	100	200	500	1000
5	60.8	66.0	72.9	79.0
6	56.9	61.7	68.7	74.6
7	53.4	58.2	65.1	71.0
8	50.2	55.1	62.0	68.0
9	47.4	52.4	59.4	65.4
10	44.8	49.9	57.0	63.1
11	42.4	47.7	54.9	60.9
12	40.2	45.6	52.9	59.0
13	38.2	43.7	51.1	57.2
14	36.3	41.9	49.5	55.4
15	34.6	40.1	47.9	53.8
16	33.0	38.5	46.3	52.2
17	31.5	37.0	44.9	50.7
18	30.0	35.6	43.5	49.2
19	28.7	34.3	42.1	47.9
20	27.5	33.0	40.8	46.5
21	26.4	31.7	39.5	45.3
22	25.3	30.6	38.3	44.1
23	24.3	29.5	37.1	42.9
24	23.3	28.4	35.9	41.8
25	22.4	27.4	34.8	40.7
26	21.5	26.4	33.8	39.7
27	20.7	25.4	32.7	38.7
28	19.9	24.5	31.7	37.7
29	19.1	23.6	30.7	36.8
30	18.4	22.7	29.8	35.9
31	17.6	21.8	28.9	35.0
32	16.9	21.0	28.0	34.1
33	16.2	20.1	27.1	33.2
34	15.6	19.3	26.3	32.4
35	14.9	18.6	25.5	31.5
36	14.3	17.8	24.6	30.7
37	13.7	17.1	23.8	29.9
38	13.0	16.4	23.0	29.1
39	12.4	15.7	22.3	28.3
40	11.8	15.0	21.5	27.6
41	11.2	14.3	20.7	26.8
42	10.6	13.7	20.0	26.0
43	10.1	13.1	19.2	25.3
44	9.5	12.5	18.5	24.5
45	8.9	11.9	17.8	23.8
46	8.4	11.3	17.0	23.1
47	7.9	10.7	16.3	22.3
48	7.3	10.1	15.6	21.6
49	6.8	9.5	15.0	20.9

UHF cont'd

MILES	100	200	500	1000
50	6.3	8.9	14.3	20.2
51	5.8	8.4	13.6	19.5
52	5.3	7.8	13.0	18.8
53	4.9	7.3	12.4	18.1
54	4.4	6.8	11.8	17.5
55	4.0	6.2	11.2	16.8
56	3.6	5.7	10.6	16.1
57	3.2	5.2	10.0	15.5
58	2.8	4.8	9.5	14.9
59	2.4	4.3	9.0	14.3
60	2.0	3.9	8.4	13.7
61	1.7	3.5	7.9	13.1
62	1.3	3.1	7.4	12.5
63	1.0	2.7	6.9	12.0
64	.7	2.3	6.4	11.4
65	.3	1.9	6.0	10.9
66	0.0	1.6	5.5	10.3
67	-.3	1.2	5.0	9.8
68	-.7	.9	4.5	9.3
69	-1.0	.5	4.1	8.8
70	-1.4	.2	3.7	8.3
71	-1.7	-.2	3.2	7.8
72	-2.0	-.5	2.8	7.3
73	-2.4	-.9	2.4	6.9
74	-2.7	-1.2	2.0	6.4
75	-3.0	-1.5	1.7	6.0
76	-3.3	-1.9	1.3	5.6
77	-3.5	-2.1	.9	5.3
78	-3.8	-2.4	.5	4.8
79	-4.0	-2.7	.1	4.4
80	-4.3	-3.1	-.3	3.9

PROCEDURE FOR DETERMINING SERVICE AREA CONTOUR

1. Convert effective radiated power from watts to dBk using the formula:

$$P(dBk) = (10 \times \log P(Watts)) - 30 \quad (B\text{-}1)$$

2. SUBTRACT this NEGATIVE number (in other words, convert it to positive and add) from 41 dBu.

3. In the look-up tables, determine the two height columns that correspond most closely with your H.A.A.T. (For example, if your H.A.A.T. is 300 feet, use the 200 and 500 columns.)

4. Interpolate between the listings under the two columns to determine where the figure arrived at in Step 2 falls.

5. Read the mileage at the extreme left-hand column of the row.

EXAMPLE

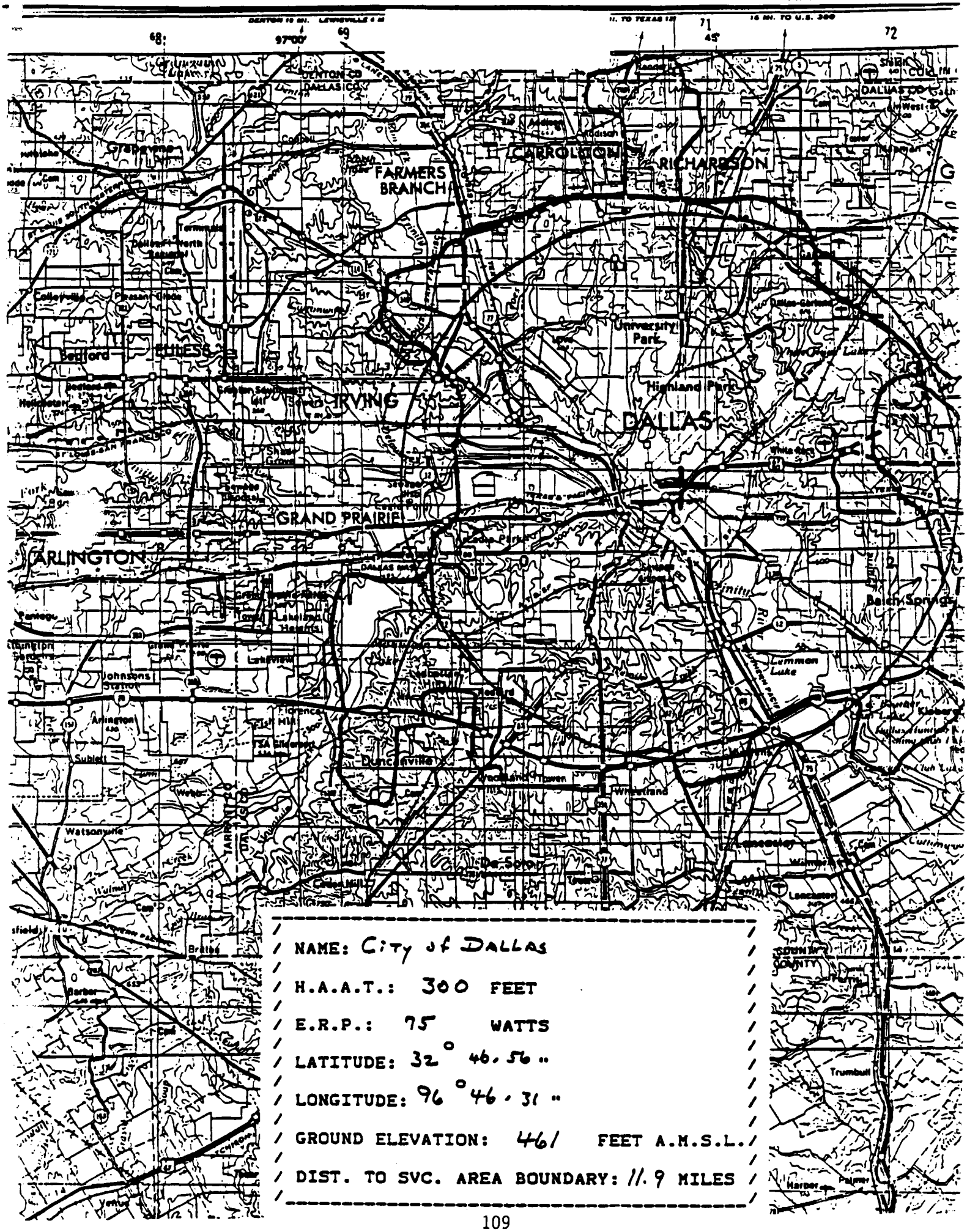
To determine the service area of a UHF base station with an ERP of 125 watts and an antenna height above average terrain of 400 feet:

$$P(dBk) = 10 \times \log (125) - 30$$
$$P(dBk) = 21 - 30$$
$$P(dBk) = -9$$

Subtracting:

$$F(dBu) = 41 - (-9)$$
$$F(dBu) = 50$$

From the look-up table, 50 falls between 45.6 and 52,9 as 400 is interpolated between 200 and 500. Corresponding mileage is 12.


68
69
71
72
DENTON CO
DALLAS CO
Grapevine
FARMERS BRANCH
CARROLLTON
RICHARDSON
Bedford
EULESS
IRVING
University Park
Highland Park
DALLAS
GRAND PRAIRIE
ARLINGTON
Balch Springs
Lemmon Lake
Johnsons Station
Lakeview
Arlington
Sublett
Duncanville
Watsonville
DeSoto
Lancaster
Trumbull
Palmer
NAME: City of DALLAS
H.A.A.T.: 300 FEET
E.R.P.: 75 WATTS
LATITUDE: 32° 46. 56 "
LONGITUDE: 96° 46. 31 "
GROUND ELEVATION: 461 FEET A.M.S.L.
DIST. TO SVC. AREA BOUNDARY: 11.9 MILES

CO-CHANNEL INTERFERENCE PROCEDURE

1. Determine distance from the proposed station to the existing station.

2. If not previously known, determine service area boundary of existing station. (Method is detailed in Appendix 13)

3. Find distance from proposed station to closest point of service area boundary of the existing station. (Subtract #2 from #1)

4. Based on mileage from 3 (above), ERP and HAAT of the proposed station, consult look-up tables for dBu level at the service area boundary of the existing station.

5. Subtract this dBu level from 41. If the result is greater than 25, the proposed system will conform with the interference parameters. If the result is less than 25, the proposed system must be redesigned by lowering power, antenna height, or both until the 25 dB protection ratio is met.

   NOTE: If the terrain between the two systems would provide additional protection that would not be evident from using the normalized HAAT's, it will be permissible to calculate the HAAT of both existing and proposed sytems along the radial line directly connecting the two stations. The resulting service area boundary of the existing station and the dBu level of the proposed station at that point would then be used to calculate the protection ratio.

EXAMPLE

	Station A (proposed)	Station X (existing)
ERP:	100W (-10dBk)	200W (-7dBk)
HAAT:	500 feet, AMSL	200 feet, AMSL

Distance from A to X: 46 miles

Service Area Boundary:	13 miles	11 miles

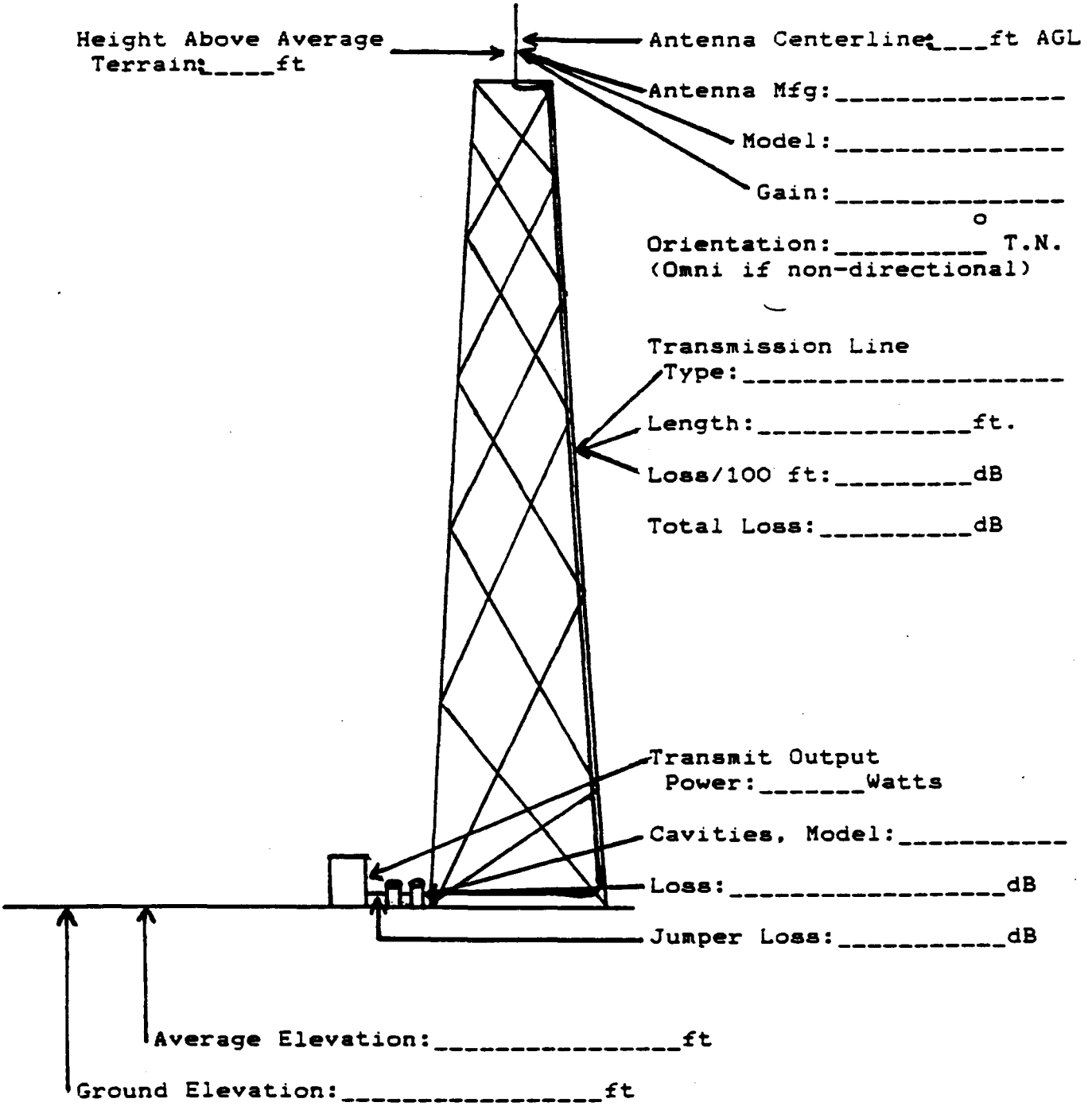
46 miles - 11 miles = 35 miles, distance from proposed to service area boundary of existing station.

From look-up tables, dBu level at 35 miles from a station with an ERP of 100 watts and HAAT of 500 feet is:

25.5 - 10 = 15.5 dBu

Subtracting this amount from the defined 41 dBu level at the service area boundary of the existing station gives 25.5 dB of protection, 0.5 dB more than the minimum we require.

SYSTEM ENGINEERING EXHIBIT



SYSTEM EFFECTIVE RADIATED POWER:_____WATTS

INITIAL FREQUENCY ASSIGNMENTS
REGION 40

County Pool	Channels Assigned
Anderson	607 645
Bowie	612 650
Camp	618 656
Cass	626 664
Cherokee	622 660
Collin	632 670 708 746 784 814
Cooke	701 739
Dallas	606 608 610 612 614 616 618 620 644 646 648 650 652
Dallas	654 656 658 682 684 686 688 690 692 694 696 720 722
Dallas	724 726 728 730 732 734 758 760 762 764 766 768 770
Dallas	772 788 790 792 794 796 798 800 802 818 820 822 824
Delta	698 736
Denton	634 672 710 748 786 816
Ellis	747 785 815
Erath	617 655
Fannin	629 667
Franklin	614 652
Grayson	699 737 775 895
Gregg	608 646 684 722 760
Harrison	632 670
Henderson	699 737
Hood	611 649
Hopkins	611 649
Hunt	627 665
Johnson	633 671 709
Kaufman	623 661
Lamar	622 660
Marion	628 666
Morris	624 662
Mutual 1	601
Mutual 2	639
Mutual 3	677
Mutual 4	715
Mutual 5	753
Navarro	631 669
Palo Pinto	615 653
Panola	708 746
Parker	609 647
Rains	609 647
Red River	606 644
Rockwall	625 663
Rusk	610 648
Smith	634 672 710 748 786 816
Somervell	613 651
Statewide	602 604 636 638 640 642 674 676 680 712 714 716
Statewide	718 750 752 754 756 826 828
Tarrant	609 612 614 616 618 620 622 624 626 628
Tarrant	630 650 652 654 656 658 660 662 664 666
Tarrant	668 688 690 692 694 696 698 700 702 704
Tarrant	706 726 728 730 732 734 736 738 740 742
Tarrant	744 774 776 778 780 782 804 806 808 810
Tarrant	812 821 830
Titus	620 658

REQUENCY ASSIGNMENTS
REGION 40 - REVISED JULY 5, 1990

County Pool	Channels Assigned
Upshur	616 654
Van Zandt	703 741
Wise	607 645
Wood	630 668
To be assigned in accordance with the Regional reuse protection criteria	619 621 657 659 685 705 707 721 735 745 759 763 765 767 771 779 781 783 789 793 795 797 799 801 803 807 809 811 813 817 819 823
Unassigned to protect statewide frequencies at this time.	603 605 635 637 641 743 673 675 679 681 711 713 717 719 749 751 755 757 825 827 829

INITIAL FREQUENCY ASSIGNMENTS
REGION 40

CHANNEL NUMBER	FREQUENCY	COUNTY FREQUENCY POOLS		
601	866.0125	MUTUAL AID 1		
602	866.0375	STATEWIDE		
603	866.0500	BLOCKED		
604	866.0625	STATEWIDE		
605	866.0750	BLOCKED		
606	866.0875	DALLAS	RED RIVER	
607	866.1000	WISE	ANDERSON	
608	866.1125	DALLAS	GREGG	
609	866.1250	PARKER	RAINS	
610	866.1375	DALLAS	RUSK	
611	866.1500	HOOD	HOPKINS	
612	866.1625	DALLAS	BOWIE	
613	866.1750	SOMERVELL		
614	866.1875	DALLAS	FRANKLIN	
615	866.2000	PALO PINTO		
616	866.2125	DALLAS	UPSHUR	
617	866.2250	ERATH		
618	866.2375	DALLAS	CAMP	
619	866.2500	TO BE ASSIGNED		
620	866.2625	DALLAS	TITUS	
621	866.2750	TO BE ASSIGNED		
622	866.2875	TARRANT	LAMAR	CHEROKEE
623	866.3000	KAUFMAN		
624	866.3125	TARRANT	MORRIS	
625	866.3250	ROCKWALL		
626	866.3375	TARRANT	CASS	
627	866.3500	HUNT		
628	866.3625	TARRANT	MARION	
629	866.3750	FANNIN		
630	866.3875	TARRANT	WOOD	
631	866.4000	NAVARRO		
632	866.4125	COLLIN	HARRISON	
633	866.4250	JOHNSON		
634	866.4375	DENTON	SMITH	
635	866.4500	BLOCKED		
636	866.4625	STATEWIDE		
637	866.4750	BLOCKED		
638	866.4875	STATEWIDE		
639	866.5125	MUTUAL AID 2		
640	866.5375	STATEWIDE		
641	866.5500	BLOCKED		
642	866.5625	STATEWIDE		
643	866.5750	BLOCKED		
644	866.5875	DALLAS	RED RIVER	
645	866.6000	WISE	ANDERSON	
646	866.6125	DALLAS	GREGG	
647	866.6250	PARKER	RAINS	
648	866.6375	DALLAS	RUSK	
649	866.6500	HOOD	HOPKINS	
650	866.6625	DALLAS	BOWIE	
651	866.6750	SOMERVELL		

INITIAL FREQUENCY ASSIGNMENTS
REGION 40

CHANNEL NUMBER	FREQUENCY	COUNTY FREQUENCY POOLS		
652	866.6875	DALLAS	FRANKLIN	
653	866.7000	PALO PINTO		
654	866.7125	DALLAS	UPSHUR	
655	866.7250	ERATH		
656	866.7375	DALLAS	CAMP	
657	866.7500	TO BE ASSIGNED		
658	866.7625	DALLAS	TITUS	
659	866.7750	TO BE ASSIGNED		
660	866.7875	TARRANT	LAMAR	CHEROKEE
661	866.8000	KAUFMAN		
662	866.8125	TARRANT	MORRIS	
663	866.8250	ROCKWALL		
664	866.8375	TARRANT	CASS	
665	866.8500	HUNT		
666	866.8625	TARRANT	MARION	
667	866.8750	FANNIN		
668	866.8875	TARRANT	WOOD	
669	866.9000	NAVARRO		
670	866.9125	COLLIN	HARRISON	
671	866.9250	JOHNSON		
672	866.9375	DENTON	SMITH	
673	866.9500	BLOCKED		
674	866.9625	STATEWIDE		
675	866.9750	BLOCKED		
676	866.9875	STATEWIDE		
677	867.0125	MUTUAL AID 3		
678	867.0375	STATEWIDE		
679	867.0500	BLOCKED		
680	867.0625	STATEWIDE		
681	867.0750	BLOCKED		
682	867.0875	DALLAS		
683	867.1000	TO BE ASSIGNED		
684	867.1125	DALLAS	GREGG	
685	867.1250	TO BE ASSIGNED		
686	867.1375	DALLAS		
687	867.1500	TO BE ASSIGNED		
688	867.1625	DALLAS		
689	867.1750	TO BE ASSIGNED		
690	867.1875	DALLAS		
691	867.2000	TO BE ASSIGNED		
692	867.2125	DALLAS		
693	867.2250	TO BE ASSIGNED		
694	867.2375	DALLAS		
695	867.2500	TO BE ASSIGNED		
696	867.2625	DALLAS		
697	867.2750	TO BE ASSIGNED		
698	867.2875	TARRANT	DELTA	
699	867.3000	GRAYSON	HENDERSON	
700	867.3125	TARRANT		
701	867.3250	COOKE		
702	867.3375	TARRANT		

INITIAL FREQUENCY ASSIGNMENTS
REGION 40

CHANNEL NUMBER	FREQUENCY	COUNTY FREQUENCY POOLS	
703	867.3500	VAN ZANDT	
704	867.3625	TARRANT	
705	867.3750	TO BE ASSIGNED	
706	867.3875	TARRANT	
707	867.4000	TO BE ASSIGNED	
708	867.4125	COLLIN	PANOLA
709	867.4250	JOHNSON	
710	867.4375	DENTON	SMITH
711	867.4500	BLOCKED	
712	867.4625	STATEWIDE	
713	867.4750	BLOCKED	
714	867.4875	STATEWIDE	
715	867.5125	MUTUAL AID 4	
716	867.5375	STATEWIDE	
717	867.5500	BLOCKED	
718	867.5625	STATEWIDE	
719	867.5750	BLOCKED	
720	867.5875	DALLAS	
721	867.6000	TO BE ASSIGNED	
722	867.6125	DALLAS	GREGG
723	867.6250	TO BE ASSIGNED	
724	867.6375	DALLAS	
725	867.6500	TO BE ASSIGNED	
726	867.6625	DALLAS	
727	867.6750	TO BE ASSIGNED	
728	867.6875	DALLAS	
729	867.7000	TO BE ASSIGNED	
730	867.7125	DALLAS	
731	867.7250	TO BE ASSIGNED	
732	867.7375	DALLAS	
733	867.7500	TO BE ASSIGNED	
734	867.7625	DALLAS	
735	867.7750	TO BE ASSIGNED	
736	867.7875	TARRANT	DELTA
737	867.8000	GRAYSON	HENDERSON
738	867.8125	TARRANT	
739	867.8250	COOKE	
740	867.8375	TARRANT	
741	867.8500	VAN ZANDT	
742	867.8625	TARRANT	
743	867.8750	TO BE ASSIGNED	
744	867.8875	TARRANT	
745	867.9000	TO BE ASSIGNED	
746	867.9125	COLLIN	PANOLA
747	867.9250	ELLIS	
748	867.9375	DENTON	SMITH
749	867.9500	BLOCKED	
750	867.9625	STATEWIDE	
751	867.9750	BLOCKED	
752	867.9875	STATEWIDE	
753	868.0125	MUTUAL AID 5	

INITIAL FREQUENCY ASSIGNMENTS
REGION 40

CHANNEL NUMBER	FREQUENCY	COUNTY FREQUENCY POOLS	
754	868.0375	STATEWIDE	
755	868.0500	BLOCKED	
756	868.0625	STATEWIDE	
757	868.0750	BLOCKED	
758	868.0875	DALLAS	
759	868.1000	TO BE ASSIGNED	
760	868.1125	DALLAS	GREGG
761	868.1250	TO BE ASSIGNED	
762	868.1375	DALLAS	
763	868.1500	TO BE ASSIGNED	
764	868.1625	DALLAS	
765	868.1750	TO BE ASSIGNED	
766	868.1875	DALLAS	
767	868.2000	TO BE ASSIGNED	
768	868.2125	DALLAS	
769	868.2250	TO BE ASSIGNED	
770	868.2375	DALLAS	
771	868.2500	TO BE ASSIGNED	
772	868.2625	DALLAS	
773	868.2750	TO BE ASSIGNED	
774	868.2875	TARRANT	
775	868.3000	GRAYSON	
776	868.3125	TARRANT	
777	868.3250	TO BE ASSIGNED	
778	868.3375	TARRANT	
779	868.3500	TO BE ASSIGNED	
780	868.3625	TARRANT	
781	868.3750	TO BE ASSIGNED	
782	868.3875	TARRANT	
783	868.4000	TO BE ASSIGNED	
784	868.4125	COLLIN	
785	868.4250	ELLIS	
786	868.4375	DENTON	SMITH
787	868.4500	TO BE ASSIGNED	
788	868.4625	DALLAS	
789	868.4750	TO BE ASSIGNED	
790	868.4875	DALLAS	
791	868.5000	TO BE ASSIGNED	
792	868.5125	DALLAS	
793	868.5250	TO BE ASSIGNED	
794	868.5375	DALLAS	
795	868.5500	TO BE ASSIGNED	
796	868.5625	DALLAS	
797	868.5750	TO BE ASSIGNED	
798	868.5875	DALLAS	
799	868.6000	TO BE ASSIGNED	
800	868.6125	DALLAS	
801	868.6250	TO BE ASSIGNED	
802	868.6375	DALLAS	
803	868.6500	TO BE ASSIGNED	
804	868.6625	TARRANT	

APPENDIX 17 (continued)

FREQUENCY ASSIGNMENTS
REGION 40 - Revised July 5, 1990

Channel	Frequency	County Pool	Assignment
805	868.6750	GRAYSON	
806	868.6875	TARRANT	
807	868.7000	TO BE ASSIGNED	
808	868.7125	TARRANT	
809	868.7250	TO BE ASSIGNED	
810	868.7375	TARRANT	
811	868.7500	TO BE ASSIGNED	
812	868.7625	DALLAS-TARRANT	Grand Prairie
813	868.7750	TO BE ASSIGNED	
814	868.7875	COLLIN	
815	868.8000	ELLIS	
816	868.8125	DENTON-SMITH	
817	868.8250	TO BE ASSIGNED	
818	868.8375	DALLAS	
819	868.8500	TO BE ASSIGNED	
820	868.8625	DALLAS	
821	868.8750	TARRANT	North Richland Hills
822	868.8875	DALLAS	Mesquite
823	868.9000	TO BE ASSIGNED	
824	868.9125	DALLAS	Irving
825	868.9250	BLOCKED	
826	868.9375	STATEWIDE	
827	868.9500	BLOCKED	
828	868.9625	STATEWIDE	
829	868.9750	BLOCKED	
830	868.9875	TARRANT	